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FACILITY: SET Command

ABSTRACT:

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This module implements the DCL command SET TERMINAL.

**ENVIRONMENT:** 

VAX/VMS operating system, user mode

AUTHOR: Gerry Smith

21-Mar-1983

Modified by:

V03-016 BLS0347 Benn Schreiber 29-AUG-1984 Only activate smg if we really need to.

V03-015 EMB0112 Ellen M. Batbouta 2-AUG-1984
Place the IO\$M\_NOE(HO modifier on the readprompt
QIO in module, INQUIRE\_TYPE. This prevents the
escape sequence for the V1200 terminals being displayed
on the screen on a SET TERMINAL/INQUIRE command.

V03-014 JRL0003 John R. Lawson, Jr. 18-May-1984 15:18 for reasons of speed, do not let the linker resolve external references to the SMG (shareable image). SMG is only required when SET TERMINAL is issued, not for any other SET command. Therefore, at the risk of

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slowing down SET TERMINAL, other SET's are sped up by linking to and activating SMG only when necessary. 12-Apr-1984

V03-013 EMD0083 Ellen M. Dusseault If /protocol is specified in the command string, don't issue the warning message, /perm qualifier was not specified.

V03-012 STAN3012 Stanley Rabinowitz 25-Mar-1984 Allow "foreign" terminal capabilities LFFILL, CRFILL and FRAME to set the corresponding terminal characteristics.

V03-011 EMD0068 Ellen M. Dusseault 13-Mar-1984 Add warning message to tell the user that the permanent charactéristics will be used since the command issued did not contain the /perm qualifier and the user does not have a channel assigned to the terminal which was specified in the command string.

V03-010 EMD0061 Ellen M. Dusseault 8-Mar-1984 Check to see if the terminal characteristic, regis, is available if the terminal is a pro or rainbow when processing the command set term/ing.

V03-009 STANOCY STANOCY Stanley Rabinowitz Add support for "foreign" terminals. 4-Mar-1984 If the terminal device type is not known, call the RTL TERMTABLE interface routines to see if it is defined there. If it is, then set up the terminal characteristics from the TERMTABLE information.

Give symbolic name, data\_bufsiz, to the size of the data\_buffer.

V03-008 EMD0051 28-feb-1984 Elien M. Dusseault Add support for SET TERMINAL/[NO]DEC\_CRT=(1,2) to implement new terminal characteristic, DEC\_CRT2. Also a new device name, PRO\_SERIES is introduced.

V03-007 MMD0234 MMD0234 Meg Dumont, 4-feb-1984 14:42 Add support for SET TERMINAL/PROTOCOL for switching terminal 4-Feb-1984 14:42 ports to and from asynch ddcmp decnet lines.

V03-006 MIR0300 MICHAEL I. ROSENBLUM 9-JAN-1984 fix problems that were encountered during field test 1. SET TER/LOCAL should set NOECHO
2. SET TER/SPEED should clear autobaud
3. SET TER/INQUIRE should send out the normal ansi sequence <u>in seven bit mode as well as 8 bit mode.</u> 4. SET TER/LOG SHOULD REPORT THE SPEED CORRECTLY

V03-005 MIR0083 Michael I. Rosenblum 23-Aug-1983 Reset terminal characteristics on the terminal line if the set term/ing fails so not to leave the terminal in 8-bit mode.

Page 3 (1)

SETTERM VO4-000		C 10 16-Sep-1984 01:10:06 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:20 [CLIUTL.SRC]SETTERM.B32;1
: 115 : 116 : 117 : 118 : 119 : 120 : 121	0115 1 : v03-004 0116 1 : 0117 1 : 0118 1 : 0119 1 :	MIR0071 Michael I. Rosenblum 22-Jul-1983 Add code to inquire to parse 8-Bit inquire sequences. add code to timeout all writes this will some timeing problems when the terminal is control-s'ed
120 121 122		GAS0143 Gerry Smith 22-Jun-1983 Lower all non-syntax ERRORs to WARNINGs.
116 117 118 119 120 121 123 124 125 126 127 128 129 130	0123 1 v03-002 0124 1 0 0125 1 0 0126 1 0	MIR0035 Michael I. Rosebnblum 27-Apr-1983 Add support for VI200 series terminals and VI200 Inquire sequences. Add support for multiple frame sizes, Dismissing parity errors. fix /Log qualifier.
128 129 130 131	0128 1 V03-001 0129 1 0130 1 0131 1	GASO117 Gerry Smith 7-Apr-1983 If a terminal is set /AUTOBAUD, also set the speed to 9600.

Page

! Permanent chars requested

VAX-11 Bliss-32 V4.0-742

[CLIUTL.SRC]SETTERM.B32:1

189

0286

```
Include files
                                        LIBRARY 'SYS$LIBRARY:LIB';
REQUIRE 'SRC$:SHOWDEF';
                                                                                                                                        VAX/VMS common definitions
                                                                                                                                        SHOW common definitions
                                            Define macros for the fields within each terminal block. These
                         0238
0239
                                            also correspond to the fields in the SENSEMODE/SENSECHAR block.
                    MACRO
                                               term$b_class = 0,

term$b_type = 1,

term$w_width = 2,

term$b_page = 7,

term$l_set1 = 4,

term$l_set2 = 8,

term$l_clr1 = 12,

term$l_clr2 = 16,

term$l_rspblk = 24,
                                                                                      0000000000
148
150
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156
                                            The data that gets used by all the subroutines is more easily handled in Bliss if it is actually a vector of data. Then, thru a BIND, all
157
158
                                            the separate names can be used to identify the various elements of the
159
                                            vector. The length of the vector (in longwords) is given by the
160
                                            literal data_bufsiz.
161
162
163
                                        MACRO bind_data =
                                                BIND
                                                       tt1_set
tt1_clr
tt2_set
tt2_clr
164
                                                                             = data_buffer[0] : BITVECTOR[32],
= data_buffer[1] : BITVECTOR[32],
165
                                                       ttl_clr = data_buffer[1] : BITVECTOR[32],
tt2_set = data_buffer[2] : BITVECTOR[32],
tt2_clr = data_buffer[3] : BITVECTOR[32],
speed = data_buffer[4],
parity = data_buffer[5],
fill = data_buffer[6],
flags = data_buffer[7] : $BBLOCK[4],
dev_desc = data_buffer[8] : $BBLOCK[dsc$c_s_bln],
info_block = data_buffer[10] : $BBLOCK[12],
index = data_buffer[13],
chan = data_buffer[14] : WORD,
deccrt_set = data_buffer[15] : BITVECTOR[32],
deccrt_clr = data_buffer[16] : BITVECTOR[32],
name_desc = data_buffer[17] : $BBLOCK[dsc$c_s_bln];
166
168
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173
174
175
                     M 0271
                     M 0272
M 0273
176
177
                         0274
                         0275
0276
0277
178
                                                        name_desc = data_buffer[17] : $BBLOCK[dsc$c_s_bln]; %;
179
180
                                    1 LITERAL
                         0278
0279
0280
181
182
183
                                                        data_bufsiz = 19;
                                                                                                     ! Number of longwords in data_buffer.
184
                         0281
                         0282
0283
185
                                            Define FLAGS bits
186
187
                         0284
                                        MACRO
188
                         0285
                                                set$v_log = 0, 0, 1, 0%,
set$v_perm = 0, 1, 1, 0%,
                                                                                                                                     ! Logging desired
```

SETTERM V04-000		E 10 16-Sep-1984 01:10:06 14-Sep-1984 12:09:20	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETTERM.B32;1	Page 5 (2)
190 0287 1 191 0288 1 192 0289 1 193 0290 1 194 0291 1 195 0292 1 196 0293 1 197 0294 1 198 0295 1 199 0296 1 200 0297 1 201 0298 1 202 0299 1 203 0300 1	<pre>set\$v_odd = 0, 2, 1, 0%, set\$v_even = 0, 3, 1, 0%, set\$v_nopar = 0, 4, 1, 0%, set\$v_lf = 0, 5, 1, 0%, set\$v_cr = 0, 6, 1, 0%, set\$v_speed = 0, 7, 1, 0%, set\$v_width = 0, 8, 1, 0%, set\$v_page = 0, 9, 1, 0%, set\$v_frame = 0, 10, 1, 0%, set\$v_frame = 0, 10, 1, 0%, set\$v_nodism= 0, 12, 1, 0%, set\$v_nodism= 0, 12, 1, 0%, set\$v_network=0, 14, 1, 0%;</pre>	! vt200 series	requested ed off  ven ed changed hanged tyerror ty turned off	

! Protocol type 'NONE' descriptor

0355 0356

0357 1

EXTERNAL

protocols\_none : vector,

...............

261

```
Table of contents
0304
1 FORWARD ROUTINE
                 setSterminal: NOVALUE.
                                                                     Main module of SET TERMINAL
                 write_timeout : NOVALUE,
                                                                     Cancel active IO
                 get_term_type,
get_term_def,
inquire_type,
                                                                    Set a particular term type
Get definition from TERMIABLE
Ask the terminal what it is
                 get_values.
                                                                   ! Collect values
                 log_results : NOVALUF;
                                                                  ! Log all results
             External routines
           EXTERNAL ROUTINE
                smg$init_term_table,
                                                                     Get address of data block from
                                                                     TERMTABLE that describes this kind
                                                                     of terminal
                                                                  ! Get data from TERMTABLE definition! Delete virtual memory used by
                 smg$get_term_data,
                 smg$del_term_table,
                                                                  ! TERMTABLE support
                                                                  Switch to a terminal line
Switch to a Asynch DDCMP port
Append ASCII strings
Convert ASCII to binary
                 switch_to_terminal,
switch_to_ddcmp,
                 str$append.
                lib$cvt_dtb,
cli$get_value,
                                                                  ! Get value from CLI
! See if qualifier is present
                 cli$present:
0330
0331
0333 1 !
                      Mechanisms for Post-activation linking to SMG
0334
0335
0336
                    ! So I don't need to change every occurrence in the program
           macro
0337
               SMG$INIT_TERM_TABLE = ( .$SMG$INIT_TERM_TABLE ) %,
SMG$DEL_TERM_TABLE = ( .$SMG$INIT_TERM_TABLE ) %,
SMG$GET_TERM_DATA = ( .$SMG$GET_TERM_DATA ) %;
0338
0339
0340
0341
0342
                                            ! To do the actual linking
        1 external routine
0344
               LIBSFIND_IMAGE_SYMBOL:
0346 1
0347 1
0348 1
       1
                      ! To hold the addresses of the actual routines
           OWN
               $SMG$INIT_TERM_TABLE,
$SMG$DEL_TERM_TABLE,
$SMG$GET_TERM_DATA: long;
0349 1
0350 1
0351 1
0352 1
0354 1
              External references
```

```
SETTERM
                                                                                                                                                                                                                                                                16-Sep-1984 01:10:06
14-Sep-1984 12:09:20
                                                                                                                                                                                                                                                                                                                                                                 VAX-11 Bliss-32 V4.0-742
V04-000
                                                                                                                                                                                                                                                                                                                                                                 [CLIUTL.SRC]SETTERM.B32;1
                                                                                                             protocols ddcmp: vector,
terms table: BLOCKVECTOR[,28,BYTE],
terms name: VECTOR,
terms ttset key: VECTOR,
terms ttset bit: VECTOR,
terms ttclr key: VECTOR,
terms ttclr bit: VECTOR,
terms ttclr bit: VECTOR,
terms tt2set key: VECTOR,
terms tt2set bit: VECTOR,
terms tt2clr key: VECTOR,
terms tt2clr bit: VECTOR,
terms tt2clr bit: VECTOR,
terms reqblk: VECTOR,
terms odd: VECTOR,
terms spdblk: VECTOR,
terms spdblk: VECTOR,
          262
263
                                                                                                                                                                                                                                                                       Protocol type 'DDCMP' descriptor Table of known terminals
                                                                0359
          0360
                                                                                                                                                                                                                                                                        Table of their names
                                                                0361 1
                                                                                                                                                                                                                                                                        Keywords
                                                               0362 1
                                                                                                                                                                                                                                                                        and their bitmasks (devdepend)
Keywords (inverse)
                                                                0364
                                                                                                                                                                                                                                                                        and their bitmasks
                                                                0365
                                                                                                                                                                                                                                                                        Keywords and
                                                               0366
0367
                                                                                                                                                                                                                                                                        their bitmasks (devdepnd2)
                                                                                                                                                                                                                                                                        Inverted keywords
                                                                0368
                                                                                                                                                                                                                                                                        their bits
                                               03773
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0338
                                                                                                                                                                                                                                                               Vector of request strings
''Odd'' descriptor
''Even'' descriptor
''None'' descriptor
                                                                                                                term$_spdblk : VECTOR;
                                                                                                                                                                                                                                                                 ! Vector of speed descriptors
                                                                                                       Macro to generate descriptors names SD_string
                                                                                             MACRO
SD[A] =
                                                                                                                                BIND *NAME('SD_',A) = *DESCRIPTOR(A) %;
                                                                                               SD(
                                                                                                                                 'SMGSHR',
                                                                                                                                 'PROTOCOL',
                                                                                                                                 'PARITY',
                                                                                                                                'FRAME',
                                                                                                                                'WÎDTH'
                                                                                                                                CREILL
                                                                                                                               'LFFILL',
'SPEED',
                                                                                                                                'DEC_CRT',
                                                                                                                                 'NO
                                                                                                                                'DEVICE_TYPE',
'DEC_CRT2');
                                                      0398
0399
0400
0401
0402
P 0403
                                                                                                               SD_COMMA = $DESCRIPTOR(',');
                                                                                                                                                                                                                                                                                              !Descriptor of a comma
                                                                                                       Declare some shared messages
                                                                                               $SHR_MSGDEF
                                                                                                                                                                (SET, 119, LOCAL,
                                                               0404
                                                                                                                                                                                                                              error));
                                                                                                                                                                (invquaval,
                                                               0405
                                                               0406
                                                               0407
                                                               0408
                                                                                                       Declare literals defined elsewhere
                                                               0409
                                                                                            EXTERNAL LITERAL terms_num, terms_ttset_num, terms_ttclr_num, terms_tt2set_num,
                                                               0410
                                                                                                                                                                                                                                                               ! Number of known terminals
! Number of DEVDEPEND bits/keywords
! Number of inverted bits/keywords
! Number of DEVDEPND2 bits/keywords
                                                               0411
                                                               0412
           316
            317
           318
                                                               0414
```

Page

Page

```
0442
0443
0444
0445
          GLOBAL ROUTINE setSterminal : NOVALUE =
          BEGIN
       555
0446
            functional description
                    This is the routine for the SET TERMINAL command. It is called
                    from the SET command processor, and sets the terminal characteristics.
            Inputs
                   None
            Outputs
                   None
          LOCAL
0460
               status,
                                                             Status return
0461
               set_length,
dev_char : $BBLOCK[4]
                                                             Address of change length string
0462
                                                             Store the device char from GETDVI
               dev_buffer : VECTOR[20,BYTE],
                                                             Device buffer
              data_buffer : VECTOR[data_bufsiz] ! Buffer to I
INITIAL (REP data_bufsiz OF (0)), ! in
info_desc : VECTOR[2], ! $GETCHN descriptor
                                                                    ! Buffer to hold much data
, ! initially clear
0464
0465
0466
0467
               iosb : VECTOR[4, WORD],
                                                            I/O status block flag set to 1 device not specified
0468
               default_device : long initial (0) ,
0469
                                                             use default
0470
               dvi_list2 : $ITMLST_DECL(ITEMS=1) ,
                                                          ! item list for ref count
                                                           ! reference count for terminal device
0471
               refcount : long initial (0);
0472
          BIND
               timeout = UPLIT(-5*10*1000*1000,-1); ! 5 seconds
0474
0475
0476
0477
            Bind all DATA_BUffER to nice normal names
0478
          bind_data;
0479
0480
0481
0482
0483
           Collect the name of the device.
0485
0486
0488
0488
0488
          $init_dyndesc(dev_desc);
                                                          ! Make the descriptor dynamic
          If NOT cli$get_value(%ASCID 'DEVICE',
                                                          ! Get the device name
                                   dev_desc)
          THEN
               BEGIN
0490
               default_device = 1 ;
                                                            Use default device
              dev_desc[dsc$w_length] = %CHARCOUNT('SYS$COMMAND');
dev_desc[dsc$a_pointer] = UPLIT BYTE('SYS$COMMAND');
0491
0492
0493
               END:
0494
0495
0496
            Use GETDVI to determine the real device name.
0497
       3 BEGIN
0498
```

I 10

16-Sep-1984 01:10:06

14-Sep-1984 12:09:20

```
0499
0500
0501
                           LOCAL
                           class,

dvi list: $ITMLST_DECL(ITEMS = 3);

$ITMLST_INIT(ITMLST = dvi_list,

(ITMCOD = dvi$_devclass,
405
406
              P 0502
P 0503
407
408
              P 0504
409
                                             BUFADR = class),
410
              P 0505
                                            (ITMCOD = dvis_devchar,
                                            BUFADR = dev char),
(ITMCOD = dvi$ devnam,
BUFADR = dev Buffer,
BUFSIZ = %ALEOCATION(dev_buffer),
              P 0506
P 0507
411
412
              P 0508
              P 0509
414
                           RETLEN = dev_desc));
status = $GETDVIW(ITMLST = dvi_list,
415
                 0510
                 0511
416
                 0512
417
                                                  DEVNAM = dev_desc,
418
                                                   IOSB
                                                          = iosb);
                 0514
0515
419
                           If .status
                           THEN status = .iosb[0]; IF_NOT .status
0516
0517
                           THEN
                 0518
                 0519
                                 SIGNAL(set$_writeerr AND NOT sts$m_severity OR sts$k_warning,
                 0520
0521
0522
0523
                                          1, dev_desc, .status);
                                RETURN:
                                END
                           ELSE
                 0524
0525
                                BEGIN
                                dev_desc[dsc$w_length] = .dev_desc[dsc$w_length] - 1;
dev_desc[dsc$a_pointer] = dev_buffer + 1;
If _class NEQ dc$_term
                 0526
                 0527
                 0528
                                THEN
                 0529
                 0530
                                      SIGNAL(set$_writeerr AND NOT sts$m_severity OR sts$k_warning,
                 0531
                                                , dēv_desc,
                0532
0533
0534
0535
0536
0537
                                              clis_ivdevtype);
                                      RETURN:
                                     END:
                                END;
                           END:
                 0539
                              Assign a channel to the device.
              0540
P 0541
                           IF NOT (status = $ASSIGN(DEVNAM = dev_desc,
                 0542
                                                                   = chañ))
                                                           CHAN
                           THEN
                 0544
                                BEGIN
                 0545
                                SIGNAL(set$_writeerr AND NOT sts$m_severity OR sts$k_warning,
                 0546
0547
                                          1, dev_desc, .status);
                                RETURN:
                 0548
                                END:
                 0549
                 0550
456
                 0551
                              If /PROTOCOL was specified then switch to the type of port requested.
457
                 0552
0553
                              If a terminal port was requested =NONE then allow other terminal
458
                              characteristics to be set. If Asynch DDCMP port was request then
459
                 0554
                              only allow the switch to made all other qualifiers are ignored. The
                              user must have OPERATOR privilege in order to make the switch. The
```

```
CCLIUTL.SRCJSETTERM.B32:1
                          port being switched can not have a non-zero reference count and
462
                        ! the Asynch DDCMP driver code must be loaded into the system.
               0558
0559
464
                        IF cli$present(SD_PROTOCOL)
465
               0560
                            THEN
               0561
466
                                 BEGIN
               0562
0563
467
                                 LOCAL
                                    desc : $BBLOCK [dsc$c s bin],
process privs : $BBLOCK[8],
getjpi_list : $ITMLST_DECL(!TEMS=1);
468
469
               0564
470
471
472
473
               0565
              0566
0567
                                 $1TALST_INIT(ITMLST=getjpi_list,
                                                 (ITMCOD = jpis_procpriv,BUFADR=process_privs));
               0568
                                 $INIT_DYNDESC(desc):
474
               0569
               0570
                                 ! Assume that the port isn't going to become a decnet port
476
               0571
                                 flags[set$v_network] = 0;
478
479
               0574
                                 status = $GETJPI(ITMLST=getjpi_list);
480
               0575
                                 IF NOT .status
               0576
0577
481
                                     THEN
482
483
                                           BEGIN
               0578
                                           SIGNAL(set$_writeerr AND NOT sts$m_severity OR sts$k_warning,
484
485
               0579
                                                       T, dev_desc, .status);
               0580
                                           RETURN:
486
               0581
                                           END:
487
               0582
0583
                                 If NOT .process_privs[prv$v_oper]
488
                                     THEN
489
               0584
490
               0585
                                          SIGNAL(set$_writeerr AND NOT sts$m_severity OR sts$k_warning,
491
492
493
               0586
                                                       T, dev_desc, ss$_nopriv);
               0587
                                           RETURN:
               0588
                                           END:
494
               0589
                                 If cli$get_value(SD_PROTOCOL, desc)
               0590
                                     THEN'
496
497
               0591
                                          BEGIN
               0592
0593
                                           LOCAL arglist : vector [2];
498
                                           IF CH$EQ[ (.desc[dsc$w_length], .desc[dsc$a_pointer],
499
               0594
                                                       .desc[dsc$w_length], .protocol$_none[1])
500
               0595
                                              THEN
               0596
0597
501
                                                    BEGIN
502
503
                                                    arglist[0] = 1;
arglist[1] = .chan;
               0598
              0599
504
                                                    IF NOT (STATUS = $CMKRNL(ROUTIN = switch_to_terminal,
505
               0600
                                                                                 ARGLST = arglist))
506
               0601
                                                       THEN
507
               0602
508
               0603
                                                             SIGNAL(set$_writeerr AND NCT sts$m_severity
509
               0604
                                                                      OR sts$k_warning,1, dev_desc, .status);
510
               0605
                                                             RETURN;
511
               0606
                                                             END:
512
513
               0607
               0608
                                                      Clear the network bit in dev_char. Now that the device
                                                      is a terminal again we can allow the remainder
               0609
514
515
               0610
                                                    ! of the set to happen.
```

dev\_char[dev\$v\_net] = 0;

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```
[CLIUTL.SRC]SETTERM.B32:1
               0613
0614
0615
0616
0617
0618
0621
0623
0623
0623
0623
0623
                                                     END
                                              ELSE
520
521
522
523
524
525
527
                                                     BEGIN
                                                       Switch to a decnet device only after the terminal
                                                       characteristics have been updated to the ones
                                                     ! the user specified on the command
                                                     IF CH$EQL (.desc[dsc$w_length], .desc[dsc$a_pointer],
                                                                  .desc[dsc$w_length], .protocol$_ddcmp[1])
528
529
530
                                                        THEN
                                                              BEGIN
                                                              flags[set$v_network] = 1;
531
                                                              END
532
533
                                                        ELSE
                                                              BEGIN
               0629
0630
0631
534
                                                              SIGNAL(set$_writeerr AND NOT sts$m_severity
535
                                                                       OR sts$k_warning,1, dev_desc,
536
                                                                       set$_invquaval
537
               0632
                                                                       2, desc, SD_PROTOCOL);
               0633
538
                                                              RETURN:
539
               0634
                                                              END
               0635
540
                                                    END
541
               0636
                                           END
542
543
               0637
                                      ELSE
               0638
                                           BEGIN
544
               0639
                                           SIGNAL(set$_writeerr AND NOT sts$m_severity OR sts$k_warning,
545
               0640
                                                     1, dev_desc, .status);
546
547
                                           RETURN:
               0641
               0642
                                           END
548
               0643
                                  END:
549
               0644
550
               0645
                           If the NET bit is set in DEV_CHAR then this is a DECNET terminal port
551
               0646
                           and allowing the set continue can produce strange results.
552
553
               0647
               0648
                           .dev_char[dev$v_net]
THEN
554
555
               0649
               0650
                                  BEGIN
556
                                  SIGNAL(set$_writeerr AND NOT sts$m_severity OR sts$k_warning,
               0651
557
               0652
0653
                                           1, dev_desc, ss$_termnetdev);
558
                                  RETURN:
559
               0654
                                  END:
               0655
560
               0656
0657
561
562
                           Determine if this is /PERM or just normal. See if logging is required.
563
               0658
564
               0659
                         flags[set$v_perm] = cli$present(%ASCID 'PERMANENT');
565
               0660
                        flags[set$v_log] = cli$present(%ASCID 'LOG');
566
               0661
567
               0662
                           Generate a warning message under the following conditions:
568
               0663

    a specific terminal device was specified,

569
               0664

    the perm qualifier is absent from the command,
    the refcount is 1 (this routine has the only channel),

570
               0665
571
               0666
                                  4. the protocol qualifer is absent from the command
572
573
               0667
                           The warning message will tell the user that the permanent characteristics
               0668
                           will be used after this routine deassigns its channel to the terminal
                           (ref count will drop to 0). Therefore it is possible that his efforts to
```

```
? ! modify characteristics will be fruitless .
576
577
               0671
               0672
0673
                        $ITMLST_INIT( ITMLST = dvi_List2,( ITMCOD = dvis_refcnt, BUFADR = refcount ));
578
                        status = $GETDVIW ( ITMLST = dvi_list2, DEVNAM=dev_desc, iosb = iosb);
579
               0674
580
               0675
                        THEN status = .iosb[0]:
581
582
583
               0676
                        If NOT .status
               0677
                        THEN
               0678
584
585
               0679
                            SIGNAL(set$_writeerr AND NOT sts$m_severity OR sts$k_warning,
               0680
                                    1, dēv_desc, .status);
586
587
               0681
                            RETURN:
               0682
0683
                            END
588
                        ELSE
589
                            BEGIN
               0684
590
               0685
                                     (.refcount EQL 1)
591
               0686
0687
592
593
                                     ( NOT .default_device )
               0688
594
               0689
                                      ( NOT .flags[set$v_perm] )
595
               0690
596
               0691
                                     ( NOT cli$present(SD_PROTOCOL) )
597
               0692
0693
598
                                     SIGNAL ( set$_noperm AND NOT sts$m_severity OR sts$k_warning );
599
               0694
                            END:
600
               0695
               0696
0697
601
                          Get the characteristics
602
                        status = $010W(CHAN = .chan,
              0698
            Ρ
              0699
604
                                        FUNC = (IF .flags[set$v_perm]
605
            Ρ
               0700
                                                  THEN io _sensechar
            Ρ
              0701
606
                                                 ELSE io$_sensemode),
              0702
607
                                         IOSB = iosb,
608
                                              = info_block,
               0704
609
                                              = 12);
               0705
610
                        If .status
              0706
0707
611
                        THEN status = .iosb[0];
612
                        IF NOT .status
               0708
                        THEN
               0709
614
               0710
615
                            SIGNAL(setS_writeerr AND NOT stsSm_severity OR stsSk_warning,
               0711
616
                                    1, dev_desc, .status);
                            RETURN:
617
618
                            END:
619
               0714
               0715
620
621
623
623
624
625
626
                          zero the parity flags and fill characteristics.
               0716
0717
                        parity = 0;
                        fill = 0;
               0713
               0720
0721
                          See if a specific terminal type was specified. If an error, then it has
                          already been signaled, and we should just go away.
628
629
                        if NOT get_term_type(data_buffer)
THEN RETURN;
631
```

Page 14

0740 0741

0742

0744

0746 0747

0748

0749 0750

0751

0752 0753

H 0754 P 0755

P 0756

P 0757

P 0758

0759

0760

0761

0762 0763

0764

0765

0766 0767

0768

0769

0770

0771

0772 0773

0774

0775

0776 0777

0778

0779

0780

0781 0782

arglist[1] = .chan;

684

685

586 687

688

```
Get individual qualifiers. If an error occurred, then it has already been
   signaled and we should just return.
If NOT get_values(data_buffer)
THEN RETURN;
IF .flags[set$v_width]
AND .$BBLOCK[inTo_block[term$l_set2], tt2$v_deccrt]
THEN_IF .info_block[term$w_width] GTR 80
                                                                        ! If width changed and this ! and it's a DEC crt .! If wide screen ! set length to 132
     THEN
          BEGIN
                                                                          and fix page length
          set length = UPLIT BYTE (27,'[?3h');
IF NOT .$BBLOCK[info_block[term$l_set2], tt2$v_avo]
THEN info_block[term$b_page] = 14;
          END
     ELSE
                                                                          If narrow, set length to 80
          BEGIN
          set length = UPLIT BYTE (27, '[?3l');
IF NOT .$BBLOCK[info_block[term$l_set2], tt2$v_avo]
                                                                          and adjust page
          THEN info_block[term$b_page] = 24;
   Now set the stuff explicitly requested by the user
10SB = iosb.
                         = info_block,
                   PŽ
P3
                         = 12,
                         = .speed,
                   P4
                         = .fill.
                   P5
                         = .parity);
If .status
THEN status = .iosb[0];
If .status EQL ss$_incompat
THEN SIGNAL (.status);
IF NOT .status
THEN
          SIGNAL(set$_writeerr AND NOT sts$m_severity OR sts$k_warning,
          1, dev_desc, .status);
RETURN;
  Now check the flag and switch to a decnet port if the user requested to
If .flags[set$v_network]
    THEN
          BEGIN
          LOCAL arglist : vector[2]; arglist[0] = 1;
```

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```
SETTERM
V04-000
```

```
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                                                                                                 [CLIUTL.SRC]SETTERM.832:1
             P 0784 4
                                 690
               0785 4
               0786
691
                                     THEN
692
               0787
                                          BEGIN
               0788
                                          SIGNAL(set$_writeerr AND NOT sts$m_severity
694
               0789
                                                   OR sts$k_warning,1, dev_desc, .status);
695
               0790
696
697
               0791
                                          END
               0792
                                    ELSE
               0793
698
                                          RETURN:
699
               0794
                                 END:
700
               0795
701
               0796
                          Now to set the characteristics. First check to see if, because the
702
               0797
                          width has changed, we need to fix the screen. Then set the explicit stuff.
               0798
704
               0799
                        if .flags[set$v_width]
AND .$BBLOCK[info_block[term$l_set2], tt2$v_deccrt]
                                                                                        ! If width changed and this
705
               0800
                                                                                        ! and it's a DEC crt
706
               0801
                        THEN
707
               0802
                            BEGIN
708
               0803
709
             P 0804
                             $SETIMR(DAYTIM = timeout,
                                                                      ! Set timeout timer going
710
            P 0805
                                 ASTADR = write_timeout,
711
               0806
                                 REGIDT = .chan7:
712
713
714
715
               0807
            P 0808
                             status = $010W(CHAN = .chan.
            P 0809
                                              FUNC = ioS_writevblk,
            P 0810
                                                   = _set_length,
= 5,
            P 0811
               0812
0813
                                              10SB = iosb);
               0814
                            $CANTIM(REQIDT = .chan):
                                                                               ! Cancel the timer
               0815
                             If .status
               0816
                             THEN IF .iosb[0] NEQ 0 THEN status = .iosb[0];
               0817
                             IF NOT .status
               0818
                             THEN
               0819
                                 BEGIN
              0820
0821
0822
0823
                                 SIGNAL(set$_writeerr AND NOT sts$m_severity OR sts$k_warning,
                                         1, dev_desc, .status);
                                 RETURN:
                                 END:
               0824
                             END:
              0825
0826
0827
0828
0829
0830
                           .$BBLQCK[info_block[term$l_set2],tt2$v_deccrt]
                           OR (.info_block[term$b_type] EQL .term$_table[term$_vt52, term$b_type])
                       THEN
                            BEGIN
                            LOCAL set_kpstate;
            P 0831
P 0832
                            $SETIMR(DAYTIM = timeout,
                                                                     ! Set timeout timer going
                                 ASTADR = write_timeout,
               0833
                                 REGIDT = .chan7;
               0834
                            status = $QIOW(CHAN = .chan,

FUNC = io$_writevblk,

P1 = (IF .$BBLOCK[info_block[term$l_set2],tt2$v_app_keypad]

THEN UPLIT BYTE (27, '=') ELSE UPLIT BYTE (27,'>')),
            P 0835
            P 0836
            P 0837
            P 0838
744
                                             P2 = 2,
10SB = iosb);
             P
              0839
745
               0840
```

B 11

```
C 11
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SETTERM
                                                                                                 VAX-11 Bliss-32 V4.0-742
                                                                                                                                         Page 16
v04-000
                                                                                                 [CLIUTL.SRC]SETTERM.B32:1
   746
747
                 0841
                 0842
                               $CANTIM(REGIDT = .chan);
                                                                               ! Cancel the timer
   748
                               If .status
   0844
                               THEN IF .iosb[0] NEQ 0 THEN status = .iosb[0];
                 0845
                               IF NOT .status
                 0846
                               THEN
                 0847
                                   BEGIN
                 0848
                                   SIGNAL (sets_writeerr AND NOT sts$m_severity OR sts$k_warning,
                 0849
                                          1, dēv_desc, .status);
                 0850
                                   RETURN:
                 0851
                                   END
                 0852
0853
                               END:
                          IF .flags[set$v_vt200]
                 0854
                          THEN
                 0855
                               $SETIMR(DAYTIM = timeout,
               P 0856
                                                                      ! Set timeout timer going
               P 0857
                                   ASTADR = write_timeout,
                 0858
                                   REGIDT = .chan7:
                 0859
               P 0860
                               status = $QIOW(CHAN = .chan,
                                               FUNC = io$_writevolk,
P1 = uplit byte (27,'[62"p',27,' F'),
               P 0861
               P 0862
               P 0863
                                                  = 9.
                 0864
                                               IOSB = iosb):
                 0865
                 0866
                               $CANTIM(REQIDT = .chan);
                                                                            ! Cancel the timer
                       2 END;
2 If .flags[set$v_log]
2 THEN log_results(data_buffer);
                 0867
                 0868
                 0869
   775
                 0870
                       2 RETURN:
1 END:
L1:0527
   776
                 0871
   777
                 0872
  INFO#250
 Referenced LOCAL symbol CLASS is probably not initialized
                                                                                  .TITLE SETTERM .IDENT \V04-000\
                                                                                  .PSECT $PLIT$, NOWRT, NOEXE, 2
                                       52 48 53 47 4D 53
                                                                  00000 P.AAB:
                                                                                  .ASCII \SMGSHR\
                                                                  00006
                                                                                  .BLKB
                                                       00000006
                                                                  00008 P.AAA:
                                                                                  .LONG
                                                       00000000
                                                                                  .ADDRESS P.AAB
                                                                  0000C
                                                       52 50
00000008
                                                                                  .ASCII \PROTOCOL\
                                       43 4F 54 4F
                                                                  00010 P.AAD:
                                  4F
                                                                                  .LONG
                                                                  00018 P.AAC:
                                                                  0001C
                                                       00000000
                                                                                  .ADDRESS P.AAD
                                            54 49 52 41 50
                                                                  00020 P.AAF:
                                                                                  .ASCII \PARITY\
                                       59
                                                                  00026
                                                                                  .BLKB
                                                       00000006
                                                                  00028 P.AAE:
                                                                                  .LONG
                                                       00000000
                                                                  0002C
                                                                                  .ADDRESS P.AAF
                                                                  ĎŎŎŠŎ P.AAH:
                                            45 4D 41 52 46
                                                                                  .ASCII \FRAME\
                                                                  00035
                                                                                  .BLKB
                                                       00000005
                                                                  00038 P.AAG:
                                                                                  .LONG
```

45 47 41 50

0003C

00040 P.AAJ:

.ADDRESS P.AAH

.ASCII \PAGE\

```
16-Sep-1984 01:10:06
                                                                          VAX-11 Bliss-32 V4.0-742
                                                                                                               Page
                                                                                                                    17
                                                 14-Sep-1984 12:09:20
                                                                          [CLIUTL.SRC]SETTERM.B32:1
                                                                                                                     (4)
                                   00000004
                                             00044 P.AAI: .LONG 4
                                                            .ADDRESS P.AAJ
                                   00000000.
                                             00048
                                    49 57
                        48 54
                                             0004C P.AAL:
                                                          .ASCII \WIDTH\
                                             00051
                                                            .BLKB
                                   00000005
                                             00054 P.AAK:
                                                           .LONG
                                                            .ADDRESS P.AAL
                                   00000000
                                             00058
                    46 46 49
                                 46 52 43
                                             0005C P.AAN:
                                                           .ASCII \CRFILL\
                                             00062
                                                            .BLKB
                                   00000006
                                             00064 P.AAM:
                                                            .LONG
                                   00000000
                                             83000
                                                            .ADDRESS P.AAN
                                             0006C P.AAP:
                    46 46 49
                                46 46 40
                                                            .ASCII \LFFILL\
                                             00072
00074 P.AAO:
                                                            .BLKB
                                   00000006
                                                            .LONG
                                   00000000
                                                            .ADDRESS P.AAP
                                             00078
                           45 45 50 53
                                             0007C P.AAR:
                                                            .ASCII \SPEED\
                                             00081
                                                            .BLKB
                                   00000005
                                             00084 P.AAQ:
                                                            .LONG
                                   00000000
                                                            .ADDRESS P.AAR
                                             00088
                   52 43 5F 43 45 44
                                             0008C P.AAT:
                                                            .ASCII \DEC_CRT\
                                             00093
                                                            .BLKB
                                   00000007
                                             00094 P.AAS:
                                                            .LONG
                                   00000000 00098
                                                            .ADDRESS P.AAT
                                     4F 4E
                                             0009C P.AAV:
                                                            .ASCII \NO\
                                             0009E
                                                            .BLKB
                                   20000002
                                             000A0 P.AAU:
                                                            .LONG
                                   00000000
                                             000A4
                                                            .ADDRESS P.AAV
                                             ČČČAS P.AAX:
45 50
       59 54
                5F
                   45
                       43
                                56 45 44
                                                           .ASCII \DEVICE_TYPE\
                                             000B3
                                                            .BLKB
                                             00084 P.AAW:
                                   0000000B
                                                           .LONG
            32 54 52 43 5F 43 45 44
00000008
                                             00088
                                                            .ADDRESS P.AAX
                                             OOCBC P.AAZ:
                                                           .ASCII \DEC_CRT2\
.LONG 8
                                             000C4 P.AAY:
                                                           .LONG
                                   00000000
                                                           .ADDRESS P.AAZ
                                             80000
                                             000CC P.ABB:
                                                           .ASCII \,\
                                                           .BLKB
                                             000CD
                                   00000001
                                             000D0 P.ABA:
                                                           .LONG
                                   00000000
                                             000D4
                                                            .ADDRESS P.ABB
                                             00008 P.ABC:
                                   00000000
                                                                 0[19]
                                                            IONG
                                             00124 P.ABD:
0012C P.ABF:
                        FFFFFFF FD050F80
                                                           .LONG
                                                                    -50000000, -1
                           49 56 45 44
                        43
                                                           .ASCII
                                                                    \DEVICE\<0><0>
                                   010E0006
                                             00134 P.ABE:
                                                            .LONG
                                                                   17694726
                                   000000000 00138
                                                            .ADDRESS P.ABF
                                    59 53
                                             0013C P.ABG:
                                                           .ASCII \SYS$COMMAND\
                                             00147
                                                            .BLKB
                                52 45 50
00
    CO
        54
                                             00148 P.ABI:
                                                           .ASCII
                                                                   \PERMANENT\<0><0><0>
                        41
                             4D
                                                           LONG 17694729
                                   010E0009
                                             00154 P.ABH:
                                   00000000
                                             00158
                                                            .ADDRESS P.ABI
                               47 4F 4C
010E0003
                                                           .ASCII \LOG\<0>.LONG 17694723
                                             0015C P.ABK:
                                             00160 P.ABJ:
                                                           ADDRESS P.ABK
                                   00000000
                                             00164
                                             00168 P.ABL:
                                                           .BYTE
                                         18
                                             00169
                                                                   \[?3h\
                                33
                                    3F
                                         5B
                                                           .ASCII
                             68
                                             0016D P.ABM:
                                         18
                                                           .BYTE
                                            0016E
00172 P.ABN:
00173
                                                                   \[?3\\
27
                                33
                                    3F
                                         5B
                                                           .ASCII
                             60
                                         18
                                                           .BYTE
                                         3D
                                                            .ASCII
                                                                    \=\
                                             00174 P.ABO:
                                                                    27
                                                           .BYTE
```

D 11

```
E 11
                                                                                     16-Sep-1984 01:10:06
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                                                                                                                                                                                            VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                                                                                                                                                                                                    Page
                                                                                                                                                                                            CCLIUTL.SRCJSETTERM.B32;1
                                                                                                                                                                                                                                                                                                                                                                          (4)
                                                                                                                                  .ASCII
                                                                    00176 P.ABP:
                                                     18
                                                                                                                                 .BYTE
                                                                                                                                                                \[62''p\
27
                                                  ŚB
22 32
                                 36
                                                                                                                                 .ASCII
                                                   1B
20
                                                                     00170
                                                                                                                                 .BYTE
                                   46
                                                                                                                                                                \ F\
                                                                     0017D
                                                                                                                                 .ASCII
                                                                                                                                 .PSECT SOWNS, NOEXE, 2
                                                                     00000 $SMG$INIT_TERM_TABLE:
                                                                                                                                  .BLKB
                                                                    00004 $SMG$DEL_TERM_TABLE:
                                                                    00008 $SMG$GET_TERM_DATA:
                                                                                             SD_SMGSHR=
SD_PROTOCOL=
                                                                                                                                                                                   P.AAA
                                                                                                                                                                                   P.AAC
                                                                                              SD_PARITY=
                                                                                                                                                                                   P.AAE
                                                                                              SD FRAME =
                                                                                                                                                                                   P.AAG
                                                                                             SD_PAGE = SD_WIDTH= SD_CRFILL=
                                                                                                                                                                                  P.AAI
                                                                                                                                                                                  P.AAK
                                                                                                                                                                                  P.AAM
                                                                                             SD_LFFILL=
SD_SPEED=
SD_DEC_CRT=
                                                                                                                                                                                  P.AAO
                                                                                                                                                                                   P.AAQ
                                                                                                                                                                                   P.AAS
                                                                                               SD_NO=
                                                                                                                                                                                   P.AAU
                                                                                              SD_DEVICE_TYPE=
                                                                                                                                                                                   P.AAW
                                                                                              SD_DEC_CRT2=
SD_COMMA=
                                                                                                                                                                                   P.AAY
                                                                                                                                                                                  P.ABA
                                                                                                                                                              P.ABA
P.ABD

SWITCH_TO_TERMINAL

SWITCH_TO_DDCMP

STR$APPEND, LIB$CVT_DTB

CLI$GET_VALUE, CLI$PRESENT

LIB$FIND_IMAGE_SYMBOL

PROTOCOL$ NONE, PROTOCOL$_DDCMP

TERM$_TABEE, TERM$_NAME

TERM$_TTSET_KEY

TERM$_TTCLR_KEY

TERM$_TTCLR_KEY

TERM$_TTCLR_BIT

TERM$_TTZCLR_BIT

TERM$_TTZCLR
                                                                                              TIMEOUT=
                                                                                                                                                                                   P.ABD
                                                                                                                                 .EXTRN
                                                                                                                                  .EXTRN
                                                                                                                                  .EXTRN
                                                                                                                                  .EXTRN
                                                                                                                                  .EXTRN
                                                                                                                                  .EXTRN
                                                                                                                                  EXTRN
                                                                                                                                  EXTRN
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                                                                                                                                  .EXTRN
                                                                                                                                  .EXTRN
                                                                                                                                 .EXTRN
                                                                                                                                 .EXTRN
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16-Sep-1984 01:10:06
14-Sep-1984 12:09:20
                                                                                                              VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETTERM.B32:1
                                                                                                                                                                        Page
                                                                                                   TERMS_VT173, TERMS_VT52
TERMS_VT200 SERIES
TERMS_PRO_SERIES
TERMS_FT1, TERMS_FT8
TERMS_UNKNOWN, SETS_TERMSET
SETS_UNKTERM
SETS_NOPERM, CLIS_IVDEVTYPE
CLIS_ABSENT, CLIS_NEGATED
CLIS_PRESENT, SYSSGETDVIW
SYSSASSIGN, SYSSGETJPI
SYSSCMKRNL, SYSSQIOW
SYSSSETIMR, SYSSCANTIM
                                                                                       .EXTRN
                                                                                       .EXTRN
                                                                                       .EXTRN
                                                                                        .EXTRN
                                                                                        .EXTRN
                                                                                        .EXTRN
                                                                                        .EXTRN
                                                                                        .EXTRN
                                                                                       .EXTRN
                                                                                       .EXTRN
                                                                                       .EXTRN
                                                                                       .PSECT
                                                                                                   $CODE$.NOWRT.2
                                                        OFFC 00000
                                                                                       .ENTRY
                                                                                                    SET$TERMINAL, Save R2,R3,R4,R5,R6,R7,R8,R9,-: 0442
                                                                                                    R10,R11
                              5B 00000000G
                                                                00002
                                                                                                    SYSSCANTIM, R1
                                                                                       MOVAB
                                   0000000G
                                                     ŎŎ
                                                           9Ē
                                                                00009
                                                                                       MOVAB
                                                                                                    SYS$SETIMR, R10
                                                                                                   LIB$SIGNAL, R9
CLI$PRESENT, R8
SYS$QIOW, R7
SD_PROTOCOL, R6
                              59
                                   00000000G
                                                           9Ĕ
                                                     00
                                                               00010
                                                                                       MOVAB
                                   00000000G
                                                     00
                                                           9Ē
                                                               00017
                                                                                       MOVAB
                              57
                                   00000000
                                                     ŎŎ
                                                           9Ē
                                                               0001E
                                                                                       MOVAB
                              56
                                          0000
                                                           9Ē
                                                     CF
                                                                00025
                                                                                       MOVAB
                                                                                                   -180(SP), SP
#76, P.ABC, DATA_BUFFER
DFFAULT_DEVICE
REFCOUNT
                              SE.
                                                           9Ē
                                                                0002A
                                                     CE
                                          FF4C
                                                                                       MOVAB
54
       AE
                   0000
                                          004C
                                                           28
                                                                                       MOVC3
                                                                0002F
                                                                                                                                                                              0465
                                                     55
                                                           D4
                                                                00038
                                                                                       CLRL
                                                           D4
                                                                0003A
                                                     AE
                                                                                       CLRL
                                                                                                    #34471936, DEV_DESC
                              AE 020E0000
                                                     8F
                      74
                                                           DO.
                                                                0003D
                                                                                       MOVL
                                                                                                                                                                               0484
                                                                                                    DEV_DESC+4
DEV_DESC
                                                     AE
                                                           04
                                                                00045
                                                                                       CLRL
                                                     AĒ
C6
                                                           9F
                                                                00048
                                                                                       PUSHAB
                                                                                                                                                                              0486
                                         0110
                                                           9F
                                                               0004B
                                                                                       PUSHAB
                                                                                                    P.ABE
                                                     02
50
                                                                                                    #2, CLISGET_VALUE
            0000000G
                                                           FB 0004F
                                                                                       CALLS
                              OD
                                                           E8
                                                               00056
                                                                                       BLBS
                                                                                                    RO, 15
                                                                                                    MI, DEFAULT_DEVICE
                              55
                                                     01
                                                           DO 00059
                                                                                       MOVL
                                                                                                                                                                              0490
                                                                                                   #11, DEV DESC
P.ABG, DEV DESC+4
DVI LIST, $$ITMBLKPTR
#262148, ($$ITMBLKPTR)+
CLASS, ($$ITMBLKPTR)+
($$ITMBLKPTR)+
                      74
78
                              AE
                                                     0B
                                                           BO 0005C
                                                                                       WVOM
                                                                                                                                                                              0491
                              AE
50
                                         0124
                                                     6
                                                           9E 00060
                                                                                       MOVAB
                                                                                                                                                                              0492
                                                     AE
                                                           9Ē
                                                               00066 15:
                                                                                       MOVAB
                                                                                                                                                                              0510
                              80
                                   00040004
                                                     8F
                                                           DŎ
                                                                0006A
                                                                                       MOVL
                              80
                                                           9E
                                                     6E
                                                               00071
                                                                                       MOVAB
                                                           D4
                                                               00074
                                                     80
                                                                                       CLRL
                                                                                                   ($$IIMBLKPIR)+
#131076, ($$IIMBLKPIR)+
DEV_CHAR, ($$IIMBLKPIR)+
($$IIMBLKPIR)+
#2097172, ($$IIMBLKPIR)+
DEV_BUFFER, ($$IIMBLKPIR)+
DEV_DESC, ($$IIMBLKPIR)+
($$IIMBLKPIR)+
                                   00020004
                                                     8F
                                                           DO
                              80
                                                               00076
                                                                                       MOVL
                              80
                                                           9E
                                                                0007D
                                                                                       MOVAB
                                                     80
                                                           D4
                                                               00081
                                                                                       CLRL
                                                                00083
                              80
                                   00200014
                                                     8F
                                                           DO
                                                                                       MOVL
                                             EC
74
                                                                A8000
                              80
                                                     AD
                                                           9E
                                                                                       MOVAB
                                                           9Ē
                              80
                                                     AE
                                                               38000
                                                                                       MOVAB
                                                     80
                                                           D4
                                                               00092
                                                                                       CLRL
                                                     7E
7E
AE
                                                           70
                                                                00094
                                                                                       CLRQ
                                                                                                                                                                              0513
                                                                                                    -(SP)
                                                           D4
                                                                00096
                                                                                       CLRL
                                                                                                    -(SP)
                                                           9F
                                                                00098
                                                                                       PUSHAB
                                                                                                    IOSB
                                            100
                                                                                                   DVI_LIST
DEV_DESC
                                                     AE
                                                           9F
                                                                0009B
                                                                                       PUSHAB
                                                     AD 7E 08 50
                                                           9F
                                                                0009E
                                                                                       PUSHAB
                                                                000A1
                                                                                       CLRQ
                                                                                                    -(SP)
            0000000G
                                                                                                   #8, SYS$GETDVIW
RO, STATUS
                                                           FB
                                                                000A3
                                                                                       CALLS
                              54
76
54
                                                           D0
                                                                000AA
                                                                                       MOVL
                                                           E9 000AD
3C 000B0
                                                                                                   STATUS, 48
IOSB, STATUS
                                                                                                                                                                              0514
0515
                                                                                       BLBC
                                             44
                                                     AE
                                                                                       MOVZWL
```

					1	6-Sep-19 4-Sep-19	984 01:10: 984 12:09:	06 VAX-11 Bliss-32 V4.0-742 20 [CLIUTL.SRC]SETTERM.B32:1	Page 20 (4)
	78 00000042	6F AE 8F	74 ED	54 E9 AE B AD 91 6E D 08 1:	7 000B7 E 000BA I 000BF		BLBC DECW MOVAB CMPL BEQL	STATUS, 4\$ DEV_DESC DEV_BUFFER+1, DEV_DESC+4 CLASS, #66 2\$	: 0516 : 0525 : 0526 : 0527
			0000000G	8F D1	00008		PUSHL	NCLIS_IVDEVTYPE	0530
			D <b>8</b>	7E 71	00000 00002	2\$:	BRB CLRQ PUSHAB	-(SP) CHAN	0542
	0000000G	00	CO	AD 91	F 000D5 B 000D8		PUSHAB CALLS	DEV_DESC #4, SYS\$ASSIGN	
		54 50		04 FI 50 DI 54 E	9 000E2		MOVL Blb(	RO, STATUS STATUS, 7\$	
		68 03		56 DI 01 FI 50 EI	3 000E7		PUSHL CALLS	R6 #1, CLISPRESENT	0559
				0BB 31	1 000ED	7.0	BLBS BRW	RO, 3\$	
		50 80 80	02040004	8F DO	000F0 000F4	<b>55</b> :	MOVAB MOVL	GETJPI LIST, \$\$ITMBLKPTR #33816580, (\$\$ITMBLKPTR)+ PROCESS PRIVS, (\$\$ITMBLKPTR)+ (\$\$ITMBLKPTR)+	: 0567
	20		24 020E0000	80 70	000FB		MOVAB CLRQ	(\$\$ITMB[KPTR)+	0540
	71	AE	30 40	AE DA	00101 00109 00100 00111		MOVL CLRL BICB2	#34471936, DESC DESC+4 #64, FLAGS+1	; 056 <b>8</b> : 0572
	, ,	7.6	40	8F 8/7E 7/6 PF 7	00111		CLRO	-(SP) -(SP)	0574
			20	AE 91	00115		PUSHAB CLRQ	GÈTJPI_LIST -(SP)	•
	00000000	00		7E D4	6 0011A		CLRL	-(SP) #7, SYS\$GETJPI	
		54 19		50 DO	) 00123 ) 00126	45:	MOVL 6.BC	RO, STATUS STATUS, 7\$	0575
05	26	AE		50 DC 54 ES 02 EC 24 DC 28E 31	00129		BBS Pushl	<pre>#2, PROCESS_PRIVS+2, 6\$ #36</pre>	: 0582 : 0585
			2C 02	28E 31 AE 9f	00155	V .	BRW PUSHAB	35\$ DESC	. 0589
	00000006	00 03		56 DE 650 E 6	3 00138		PUSHL CALLS	R6 #2, CLI\$GET_VALUE	:
			00000000	27A 31	00142	7 <b>\$</b> :	BLBS BRW	RO, 8\$ 34\$	
60	30	50 BE	900000000 000000000	00 D( AE 29 25 12	00140	<b>6)</b> :	MOVL CMPC3	PROTOCOL\$ NONE+4, RO DESC, adeSC+4, (RO)	0594 0593
	0 C 1 O	AE AE	80	01 D(	1 1111174		BNEQ MOVL MOVZWL	9\$ W1, ARGLIST CHAN, ARGLIST+4	0597 0598
	,,	n.	00000000G	AE 91	00158 00150 00160 00160 00160 00170		PHISHAR	ARGI IST	0600
	00000000	00 54 CF		02 FE	00166		CALLS	SWITCH TO TERMINAL #2, SYSSCMKRNL RO, STATUS STATUS, 78	•
	05	CF AE		AD 30 AE 91 002 FE 50 D0 54 E9 32 D0 AE 07	1 00173		BICBS	WOE, DEV_CHARY!	0612
		50 BE	000000000	32 11 00 00	00177 00179	<b>9\$</b> :	BRB Movl	PROTOCOLS DDCMP+4, RO	: 0591 : 0622
60	30				2 00186		CMPC3 BNEQ	DESC, adesc+4, (RU) 10\$	: 0621
	71	AE	40	8F 88	00188 0018D		BISB2 BRB	#64, FLAGS+1 11\$	0625 0615

TERM -OOG					H 11 16-Sep-1984 01:10:06 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:20 [CLIUTL.SRC]SETTERM.B32;1	Page 21 (4)
			69	30 AB 0077132A BB CO AB 000000000+ BB	DD 0018f 10\$: PUSHL R6 9F 00191 PUSHAB DESC DD 00194 PUSHL #2 DD 00196 PUSHL #7803690 9F 0019C PUSHAB DEV_DESC DD 0019F PUSHL #1 DD 001A1 PUSHL # <set\$ writeerr&-8=""> EB 001A7 CALLS #7, LIB\$SIGNAL</set\$>	0629
		08	05 AE 7E		FB 001A7	0628 0648 0651
70	AE	01	6 <b>8</b> 01	0130 (6	9F 001B8 12\$: PUSHAB P.ABH FB 001BC CALLS W1, CLI\$PRESENT FO 001BF INSV R0, W1, W1, FLAGS 9F 001C5 PUSHAB P.ABJ	0659 0660
70	AE	01	68 00 50 80 80	00 50 34 AE 001E0004 81	FB 001C9 CALLS W1, CLISPRESENT FO 001CC INSV RO, W0, W1, FLAGS 9F 001D2 MOVAR DVI LIST2, \$\$ITMRLKPTR	0672
			80	80 78 78 50 AB	7C 001E1	0673
		0000	00000 00	44 AE CO AE 76 08	9F 001EA PUSHAB DVI_LIST2 9F 001ED PUSHAB DEV_DESC 7C 001F0 CLRQ -(SP) FB 001F2 CALLS #8, SYS\$GETDVIW	
			00000G 00 54 52 54 4B 01	54 44 AE 54 08 AE	DO 001F9 MOVL RO, STATUS E9 001FC BLBC STATUS, 16\$ 3C 001FF MOVZWL IOSB, STATUS E9 00203 BLBC STATUS, 16\$ D1 00206 CMPL REFCOUNT, #1	0674 0675 0676 0685
		11	70 AE	56	12 0020A BNEQ 13\$ E8 0020C BLBS DEFAULT DEVICE, 13\$ E0 0020F BBS #1, FLAGS, 13\$ DD 00214 PUSHL R6 FB 00216 CALLS #1, CLI\$PRESENT	0687 0689 0691
			68 09 69	00000000 * 8f	E8 00219 BLBS R0, 13\$ DD 0021C PUSHL # <set\$ noperm&-8=""> FB 00222 CALLS #1, LIB\$SIGNAL 7C 00225 13\$: CLRQ -(SP)</set\$>	0693 0704
				00 C8 <b>A</b> 0 78	DD 00229 PUSHI #12	
		04	BC AD	64 AE 01 1e	9F 0022B PUSHAB ÎNFO BLOCK 7C 0022E CLRQ -(SP) 9F 00230 PUSHAB IOSB E1 00233 BBC #1, FLAGS, 14\$ DD 00238 PUSHL #27 11 0023A BRB 15\$	; ;
			7E	02 27 08 <b>A</b> I 78	DD 0023C 14\$: PUSHL #39 3C 0023E 15\$: MOVZWL CHAN(SP)	
			67 54 04	00 50 54	D4 00242 CLRL -(SP) FB 00244 CALLS #12, SYS\$QIOW D0 00247 MOVL RO, STATUS E9 0024A BLBC STATUS, 16\$	0705

								1	I 11 6-Sep-	1984 01:10 1984 12:09	: 06	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETTERM.B32;1	Pa	ge 22 (4)
				54 03	44	AE 54 0168	3C E8 31	0024D 00251	16\$:	MOVZWL BLBS BRW	IOSB,	STATUS US, 17\$		: 0706 : 0707
			0000 <b>v</b>	CF 08	68 54	AE AE 01	7 C 9 F F B	00257 0025A 0025D	17\$:	CLRQ PUSHAB CALLS	PARIT DATA	BUFFFR		0717 0724
			0000v	CF 01	54	50 AE 01 50	E9 FB E8	00265 00268 0026D	18\$:	BLBC PUSHAB CALLS BLBS	DATA #1, G RO, 1	ET_TERM_TYPE 85 BUFFER ET_VALUES 95		0731
50	<b>D3</b>	2B <b>A</b> D	03	30 AD 01	71	AE 05 03	04 E9 E1 EF	<b>りり</b> う71	19\$:	RET BLBC BBC EXTZV	#5. I	+1, 21\$ NFO_BLOCK+11, 21\$ 11, INFO_BLOCK+11, RO		: 0733 : 0734 : 0739
			0050	50 8f 52	7E 0150	50 AE 0E 06	D2 B1 1B 9E	00283 00289		MCOML (MPW BLEQU MOVAB	INFO_ 20\$	BLOCK+2, #80		0735
			CF	52 12 AD		50 0E 0C	E9 90 11	UUZTI		BLBC Movb Brb	#14, 21 <b>\$</b>	SET_LENGTH INFO_BLOCK+7		0738 0739 0740 0735
			CF	52 04 AD	0155	C6 50 18 7E	9E 90 04	0029E 002A1		MOVAB BLB( MOVB (LRL	RU, 2	INFO_BLOCK+7		0744 0745 0746 0762
					6C 74 70	AE AE AE	00 00	002A7 002AA 002AD	2,0.	PUSHL PUSHL PUSHL	PARIT FILL SPEED	Y		
					C8 64	OC AD 7E AE	DD 9F 7C 9F	002B2 002B5		PUSHAB PUSHAB CLRQ PUSHAB	#12 INFO -(SP) IOSB	BLOCK		
		04	BC	AD		01	E 1	002B7 002BA 002BF 002C1	22€ .	BBC	#1, F #26 23\$ #35	LAGS, 22\$		
				7E 67	<b>D8</b>	AD 7E 0C	3C D4 FB	002C5 002C9 002CB	22\$: 23\$:	MOVZWL CLRL CALLS	CHAN,			• • •
			00000699	67 54 04 54 8f	44	50 54 AE 54	DO E9 30 D1	002D4	245:	MOVL BLBC MOVZWL CMPL	RO, S STATU IOSB, STATU	SYS\$QIOW TATUS S, 24\$ STATUS S, #1689		0763 0764 0765
				69 6F		05 54 01 54	12 DD FB E9	002DF 002E1	258.	BNEQ PUSHL CALLS BLBC	STATU #1, L	S IB\$SIGNAL S, 27\$		0766 0767
		20	71 20 30	AE AE AE	D8 2C	06 01 AD	E1 D0 30	002E9 002EE 002F2	<i>. , .</i> .	BBC MOVL MOVZWL	#6, F	LAGS+1, 26\$ RGLIST		0778 0782 0783 0785
			0000000G	00 54 4B	000000006	AE 00 02 50 54	9F 9F FB D0			PÜSHAB PUSHAB CALLS MOVL	ARGLI SWITC #2, S RO, S	ARGLIST+4 ST H TO DDCMP YS\$CMKRNL TATUS		0785
				4B 49	71	54 AE	E9 04 E9	UUSUU		BLBC RET BLBC	STATU	\$, 27 <b>\$</b> +1, 28 <b>\$</b>		0789 0799

					J 11 16-Sep 14-Sep	-1984 01:10 -1984 12:09	:06 VAX-11 Bliss-32 V4.0-742 Pag :20 [CLIUTL.SRC]SETTERM.B32;1	je 23 (4)
49	03	AD 7E	D8 0000v	O5 AD CF	E1 00312 3C 00317 9F 0031B	BBC MOVZWL PUSHAB	#5, INFO_BLOCK+11, 29\$ CHAN, -(SP) WRITE_TIMEOUT	0800 0806
		6A	ŎĬŎĊ	C704EE57EE30AE	9F 0031F 04 00323 FB 00325 7C 00328 7C 0032A DD 0032C DD 0032E	PUSHAB CLRL CALLS CLRQ CLRQ PUSHL PUSHL	TIMEOUT -(SP) #4, SYS\$SETIMR -(SP) -(SP) #5 SET_LENGTH	0812
			64	AE	7C 00330 9F 00332 DD 00335	CLRQ PUSHAB PUSHL	-(SP) IOSB #48	•
		7E	D8	AD 7E	3C 00337 D4 0033B	MOVZWL CLRL	CHAN, -(SP) -(SP)	
		67 54		0C 50 7E	FB 0033D D0 00340	CALLS MOVL	#12, SYS\$QIOW RO, STATUS	
		7E	<b>D8</b>	AD	D4 00343 3C 00345	CLRL MOVZWL	-(SP) CHAN, -(SP) #2, SYS\$CANTIM	0814
		6 <b>B</b> 70	44	02 54 AE	FB 00349 E9 0034C B5 0034F	CALLS BLBC TSTW	STATUS, 34\$ IOSB	0815 0816
		54 64	44	04 AE	13 00352 3C 00354	BEQL Movzwl	27\$ IOSB, STATUS	•
0 <b>A</b>	00000000	AD	70	54 05	E9 00358 27\$: E0 0035B 28\$:	BLBC BBS	STATUS, 34% #5, INFO_BLOCK+11, 30%	0817 0825
	00000000	00	70	AE 66	91 00360 29 <b>\$</b> : 12 00368	CMPB BNEQ	<pre>INFO_BLOCK+1, <term\$_table+<<term\$_vt52*28>-; +1&gt;&gt; 36\$</term\$_table+<<term\$_vt52*28></pre>	0826
		7E	0000v	AD CF	3C 0036A 30\$: 9F 0036E	MOVZWL Pushab	CHAN, -(SP) WRITE TIMEOUT TIMEOUT	0833
		6A	010ť	C6 7E 04	9F 00372 D4 00376 FB 00378	PUSHAB CLRL	-(SP) ;	
		UA .		7E	7C 0037B 7C 0037D	CALLS CLRQ CLRQ	#4, SYS\$SETIMR -(SP) -(SP)	0840
			D2	ÖŽ AD	7C 0037B 7C 0037D DD 0037F 95 00381	PUSHL TSTB	#2 INFO_BLOCK+10	
		50	015A	07	18 00384	BĞEQ MOVAB	31\$	
		50	0150	(6 50	9E 00386 11 0038B 9E 0038D 31\$: DD 00392 32\$: 7C 00394 9F 00396 DD 00399	BRB MOVAB PUSHL	32\$ P.ABO, RO RO	
			64	7E AE	7C 00394 9F 00396	CLRQ PUSHAB	-(SP) 10SB	
		7E	D8	30 AD	DD 00399 3C 0039B D4 0039F	MOVZWL	#48 CHAN, -(SP)	
		67 54		70A076560EE0DEC057A054E	FB 003A1 D0 003A4	CLRL CALLS Movl	-(SP) #12, SYS\$QIOW R0, STATUS	
			D8	ŽĒ AD	04 003A7 30 003A9	CLRL MOVZWL	-(SP) : :	0842
		7E 6B 0C	, ,	02 54	FB 003AD E9 003B0	CALLS BLBC TSTW	#2, SYS\$CANTIM ; STATUS, 34\$ ;	0843 0844
		54	44	04 AE	FB 003AD E9 003B0 B5 003B3 13 003B6 3C 003B8	BEQL MOVZWL	IOSB 33\$ IOSB, STATUS	V074

					16 14	11 -Sep-1 -Sep-1	984 01:10 984 12:09	:06	Page 24 (4)
		11	78	54 54 AE 01	DD 003BF 9F 003C1 DD 003C4	33\$: 34\$: 35\$:	BLBS PUSHL PUSHAB PUSHL	STATUS, 36\$ STATUS DEV_DESC	: 0845 : 0849 : 0848
		69	00000000	01 8F 04	DD 003C6 FB 003CC		PUSHL CALLS	<pre>#<set\$_writeerr&-8> #4, LIB\$SIGNAL</set\$_writeerr&-8></pre>	
37	71	AE 7E	D8 0000v 010C	05 AD CF C6	3C 003D5 9F 003D9 9F 003DD	36\$:	RET BBC MOVZWL PUSHAB PUSHAB	#5, FLAGS+1, 37\$ CHAN, -(SP) WRITE TIMEOUT TIMEOUT	0847 0853 0858
		6 <b>A</b>		C6 7E 04 7E 7E 09	D4 003E1 FB 003E3 7C 003E6 7C 003E8		CLRL CALLS CLRQ CLRQ	-(SP) #4, SYS\$SETIMR -(SP) -(SP)	0864
			015E	63	DD 003EA 9F 003EC		PUSHL PUSHAB	#9 P.ABP	
			64	7E AE 30	7C 003F0 9F 003F2		CLRQ PUSHAB	-(SP) 10SB	•
		7E	D8	AD	DD 003F5 3C 003F7		PUSHL MOVZWL	#48 CHAN, -(SP)	•
		67 54		7E 0C 50 7E	D4 003FB FB 003FD D0 00400 D4 00403		CLRL CALLS MOVL CLRL	-(SP) #12, SYS\$QIOW RO, STATUS -(SP)	0866
		7E 6B 08	D8 70	AD O2 AE	3C 00405 FB 00409	<b>37\$</b> :	MOVZWL CALLS BLBC	CHAN, -(SP) #2, SYS\$CANTIM FLAGS, 38\$	0868
	0000v	CF	70 54	AE 01	9F 00410 FB 00413		PUSHAB CALLS	DATA_BUFFER #1, EOG_RESULTS	0869
		•		•	04 00418	38\$:	RET	, 230	: 0872

; Routine Size: 1049 bytes, Routine Base: \$CODE\$ + 0000

; 778 0873 1

SETTERM VO4-000	L 11 16-Sep-1984 01:10:06 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:20 [CLIUTL.SRC]SETTERM.B32;1	Page 25 (5)
780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800	0875 1	
	.EXTRN SYS\$CANCEL	
	0000 00000 WRITE_TIMEOUT:	: 0874 : 0893 : 0894
; Routine Si	ze: 13 bytes, Routine Base: \$CODE\$ + 0419	

```
802
803
                          ROUTINE get_term_type (data_buffer) =
                0896
0897
804
805
                0898
806
807
                0899
                          ! Functional description
                0900
                0901
808
                                   This routine determines if a specific device type was specified,
                0902
809
                                    and, if it was, sets the associated fields in the device
                0903
810
                                   characteristics buffer.
                0904
811
812
813
                0905
                0906
0907
                            Inputs
814
                                   DATA_BUFFER - contains all the meaningful data
815
                0908
                0909
                            Outputs

INFO_BLOCK - will be changed according to what device type was
816
                0910
817
                0911
818
                                               - will be set to a number corresponding to the term type
819
                Č912
0913
820
                0914
822
823
                0915
                0916
                          MAP
824
825
                0917
                               data_buffer : REF VECTOR;
                0918
826
                0919
827
                0920
                            Bind the data buffer to names we understand.
828
                0921
                0922
0923
829
                          bind_data;
830
831
                0924
                         BUILTIN
                0925
832
                              CALLG.
833
                0926
                               AP:
834
835
                0927
                0928
                         LOCAL
836
837
                0929
                              status;
                0930
838
                0931
                          index = -1:
                                                                          ! To show nothing specified
                0932
839
840
                0933
841
                0934
                            See if /INQUIRE was specified.
842
843
                0935
                0936
0937
                          If cli$present(%ASCID 'INQUIRE')
                          THEN
844
                0938
845
                0939
                               If NOT inquire_type(.data_buffer)
846
                0940
847
                               THEN RETURN 0:
                0941
848
                               END:
                0942
849
850
                0944
                            See if a specific devtype was mentioned. Before the /DEVICE_TYPE
851
                            qualifier was implemented, it was possible to specify a deviye just by calling it out, e.g. /VI100. So, to stay compatible with earlier versions, see if any of those were specified.
852
                0945
853
                0946
854
                0947
855
                0948
                0949
                         IF .index EQL -1
THEN INCR i FROM 0 TO 14 DO
856
857
                0950
```

(If clispresent(.terms\_name[.i])

M 11

```
0952
0953
                           THEN (index = .i; EXITLOOP));
860
             0954
0955
861
862
863
                        The newer method gets a value for DEVICE_TYPE. So, if nothing found
             0956
0957
                        yet, try /DEVICE_TYPE.
864
             0958
0959
                      IF .index EQL -1
865
                      THEN
866
              0960
867
                          BEGIN
              0961
868
                          $init_dyndesc(name_desc);
             0963
869
870
                           IF clisget_value(SD_DEVICE_TYPE, name_desc)
                          THEN
871
             0964
0965
                               BEGIN
872
873
                               DECR i FROM term$_num - 1 TO 0 DO
             0966
0967
0968
                                   BEGIN
874
                                   BIND name = .term$_name[.i] : $BBLOCK;
                                   875
             0969
0970
876
877
              0971
878
                                   END:
879
             0972
                               If .index EQL -1
             0973
                              THEN
880
             0974
881
                                   BEGIN
882
             0975
             0976
0977
883
                                     Didn't find a known type. See if this terminal is
884
                                     defined in TERMTABLE.EXE, the terminal definition file.
             0978
885
             0979
886
                                   status = CALLG (.AP, get_term_def);
             0980
0981
887
                                   IF NOT .status
888
                                   THEN
             0982
0983
                                       RETURN 0
889
                                                                 ! errors already signalled
890
                                   ELSE
891
             0984
                                       RETURN 1;
                                                                 ! get_term_def stored type, width, etc.
892
             0985
                                   END:
             0986
0987
893
                              END;
894
                          END:
895
             0988
             0989
896
897
             0990
                        If a device type was specified, set it. But first, a word about the
             0991
898
                        way that things get set or don't get set.
             0992
0993
899
900
                        If the device type was specified as FT1 thru FT8, simply set the type
901
              0994
                        field.
902
             0995
903
             0996
                        If /UNKNOWN, then set the type field and clear some bits in the second
904
              0997
                        characteristics longword.
905
             0998
906
              0999
                      If .index NEQ -1
907
              1000
                      THEN
908
              1001
                          BEGIN
909
             1002
                          LOCAL
910
                               mask:
911
              1004
                           info_block[term$b_type] = .term$_table[.index, term$b_type];
912
              1005
                           If .index GEQ term$_ft1
              1006
                          AND .index LEQ terms_ft8
             1007
                          THEN RETURN 1;
              1008
```

N 11

16-Sep-1984 01:10:06

14-Sep-1984 12:09:20

```
B 12
16-Sep-1984 01:10:06
14-Sep-1984 12:09:20
SETTERM
                                                                                                   VAX-11 Bliss-32 V4.0-742
                                                                                                                                            Page 28 (6)
V04-000
                                                                                                   [CLIUTL.SRC]SETTERM.B32:1
                 1009
                               mask = .term$_table[.index, term$l_set2] OR
    .term$_table[.index,term$l_clr2];
  917
                 1010
  918
                 1011
                               1012
  919
  OR .term$_table[.index, term$'_set2];
                 1014
                               If .index EQL terms_unknown
                 1013
                               THEN RETURN 1:
                 1016
                               1018
                 1019
                 1020
1021
                 1022
                 1023
                                                               OR .term%_table[.'ndex, term%i_set1];
  931
932
                 1024
                               END:
                 1025
                       2 RETUI
  933
                 1026
                          RETUIN 1;
                 1027
                                                                                   .PSECT $PLIT$.NOWRT.NOEXE.2
                                                                   00180 P.ABR:
                                           49 55 51 4E 49
                                   45 52
                                                                                   .ASCII
                                                                                            \INQUIRE\<0>
                                                        010E0007 00188 P.ABQ:
                                                                                   .LONG
                                                                                           17694727
                                                        00000000 00180
                                                                                   .ADDRESS P.ABR
                                                                                   .PSECT $CODE$, NOWRT, 2
                                                             O7FC 00000 GET_TERM_TYPE: .WORD
                                                                                            Save R2,R3,R4,R5,R6,R7,R8,R9,R10 TERMS NAME, R10 CLISPRESENT, R9
                                                                                                                                                0895
                                           5A 00000000G
                                                                9E 00002
                                                                                   MOVAB
                                           59 00000000G
                                                                9E 00009
                                                           00
                                                                                   MOVAB
                                              0000000G
                                                           00
                                                                9E 00010
                                                                                   MOVAB
                                                                                            TERMS_TABLE+1,
                                                                                            DATA BUFFER, R2
40(R2), R5
52(R2), R7
                                           52
55
57
                                                                DO 00017
                                                           AC
                                                                                                                                                0917
                                                                                   MOVL
                                                           28
28
28
                                                     28
34
                                                                95 0001B
                                                                                   MOVAB
                                                                9E 0001F
                                                                                   MOVAB
                                           54
67
                                                                9E 00023
                                                                                            68(R2),
                                                                                   MOVAB
                                                           01
                                                                CĒ
                                                                   00027
                                                                                            #1, (R7)
                                                                                                                                                0931
                                                                                   MNEGL
                                                   0000'
                                                                9F 0002A
                                                                                            P.ABQ
                                                                                   PUSHAB
                                                                                                                                                0936
                                                           01
50
52
                                                               FB 0002E
E9 00031
                                           69
                                                                                   CALLS
                                                                                            #1, CLISPRESENT
                                           ÓΑ
                                                                                            RO, 1$
                                                                                   BLBC
                                                                DD 00034
                                                                                                                                                0939
                                                                                   PUSHL
                                                               FB 00036
E9 0003B
                                   0000v
                                           CF
                                                                                   CALLS
                                                                                            #1, INQUIRE_TYPE
                                                                                            RO, 8$ (R7), #-1
                                                           50
                                                                                   BLBC
                                                           67
                               FFFFFFF
                                                                D1
                                                                   0003E 1$:
                                                                                                                                                0949
                                                                                   CMPL
                                                                12
                                                                   00045
                                                                                   BNEQ
                                                                                            45
                                                         52
6A42
                                                                D4 00047
                                                                                   CLRL
                                                                                            TERMS NAME[I]
#1, C[ISPRESENT
R0, 35
                                                               DD 00049 25:
                                                                                   PUSHL
                                                                                                                                                0951
                                                           01
50
52
04
                                                               FB
E9
                                           69
                                                                   0004C
                                                                                   CALLS
                                           05
67
                                                                   0004F
                                                                                   BLBC
                                                                DO
                                                                   00052
                                                                                   MOVL
                                                                                            4$
                                                                                               (R7)
                                                                                                                                                0952
```

BRB

						10	12 5-Sep 4-Sep	-1984 01:10:06 -1984 12:09:20	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETTERM.B32;1		29 (6)
	EE	FFFFFFF	52 8f	0E 67	f3	00057 0005B	3\$: 4\$:	AOBLEQ #1	4, I, 2 <b>\$</b> 75, <b>#</b> =1	: 09	951 958
			_	20E0000 8F	12	00062 00064		BNEQ 9\$	4471936, (R4)	:	961
				04 A4 54	D4	0006B		CLRL 4(1 PUSHL R4	R4)	:	962
		0000000G	00	0000' CF	9F FB	00070 00074 0007B		PUSHAB SD	_DEVICE_TYPE , CLI\$GET_VALUE	:	, O.E.
	56	00000000	31 8f	02 50 01	E9	0007B 0007E		BLBC RO	, 9\$ , #TERM\$_NUM-1, I	i	965
	,,			11 6A46	11	00086	58:	BRB 6\$	RMS_NAME[I], RO	:	967
04	<b>B</b> 0	04	50 84	64	29 12	0008C 00092	, .	CMPC3 (R BNEQ 6\$	4), a4(R4), a4(R0)		968
			67	05 56 03	DÕ	00094		MOVL I. BRB 7\$	(R7)	. 09	970
		FFFFFFF	EC 8F	56 67	F4	00099 00090	6 <b>\$</b> : 7 <b>\$</b> :	SOBGEQ 1.	5 <b>\$</b> 7), <b>#-</b> 1		965 972
		0000v	CF	0.4	12 FA	000A3 000A5		BNEQ 9\$	P), GET_TERM_DEF	:	979
			6F	60 50 71	E8	000AA 000AD	8\$:	BLBS ST	ATUS, 1T\$ -	: 09	980 984
		FFFFFFF	8F	67 64	D1 13	000AF 000B6	9\$:	CMPL (R BEQL_ 11	\$	ŎĠ	999
	50	01	67 A5	1 C 6840		000B8 000BC		MULL3 #2	Å, (R7), R0 RM\$_TABLE+1[RQ], 1(R5)	10	004
		0000000G	8F	67 09	D1 19	000C1 000C8		CMPL (R BLSS 10	7), #TERM\$_FT1	10	005
		0000000G	8F	67 49	D1 15	000CA 000D1		CMPL (R BLEQ 11:	7), #TERM\$_FT8	10	006
			52	07 A840 9E	9 F	000D3 000D7	10\$:	PUSHAB TEI	RM\$_TABLE+8[R0] SP)+/	10	009
	53		52	0F A840 9E	9F	000DA 000DE		BISL3 ac	RM\$_TABLE+TOLRUJ SP)+, R2, MASK	10	010
08	51 A5	08	A5 51	53 52	(B	000E2 000E7		BICL3 MAI BISL3 R2	SK, 8(RŠ), RÍ , R1, 8(RŠ) 7), #TERM\$_UNKNOWN	: 10 : 10	012 013 014
		0000000G	8F	67 27	D1 13	000EC 000F3		BEQL 11:	<b>)</b>	:	
		02	A5	01 A840 9E	Ot	በበበዩና		PHISHAR TEL	RMS TARLE+2[RN]	<b>:</b>	017
		02 07	A5 A5	06 A840 03 A840	90 9F	000FD 00103		MOVB TEI Pushab tei	ŘM\$_ŤABLE+7[RO], 7(R5) RM\$_ŤABLE+4[RO]	: 10 : 10	018 019
			51	9E 0B A840	D0 9F	000F9 000FD 00103 00107 0010A		MOVL a() PUSHAB TEI BISL3 a()	SP) F, 2(R5) RM\$_TABLE+7[R0], 7(R5) RM\$_TABLE+4[R0] SP) F, R1 RM\$_TABLE+12[R0]	<b>:</b>	020
_	53 50 <b>A</b> 5	04	51 A5	9 <u>E</u> 53	CB	00112		BISL3 AC	SP) +, R1, MASK SK, 4(R5), R0 , R0, 4(R5)	: 10	022
04	A5		A5 50 50	51 01	00	00117 00110	115:	MUVL #1	, ŘO, 4(RŠ) , RO	; 10	02 <b>3</b> 026
				50	04	0011F 00120 00122	12\$:	RET		:	027
					U4	00122		RET		·	

; Routine Size: 291 bytes, Routine Base: \$CODE\$ + 0426

```
936
937
938
939
                 1028
1029
1030
                           ROUTINE get_values (data_buffer) =
                           BEGIN
                 1031
1032
1033
1034
1035
1036
1038
1039
940
                           ! functional description
941
942
                                     This rout ne interrogates the CLI to obtain values for various
                                     terminal characteristics.
944
945
946
947
948
949
                             Inputs
                                     CHAN - channel which is assigned to the terminal
                 1040
1041
1042
1043
                             Outputs
                                      INFO_BLOCK - changed to reflect qualifiers
950
951
952
953
                                                   - tells what was set/cleared in 1st characteristic longword
                                     111
                                                   - tells what was set/cleared in 2nd characteristic longword
                                     112
                 1044
1045
1046
1047
1048
1049
1051
1052
1053
                                     SPEED
                                                   - contains the new speed values
                                                   contains new parity codecontains new fill characteristics
                                     PARITY
954
                                     FILL
955
956
957
                                     FLAGS
                                                   - bits set to show what was changed
958
959
960
                                data_buffer : REF VECTOR;
961
962
963
                 1054
                 1055
                             Bind the data buffer to names we understand.
964
965
                 1056
                 1057
                           bind_data;
966
967
                 1058
                 1059
                          LOCAL
968
                 1060
                                crfill.
969
                 1061
                                deccrt,
970
971
972
973
974
                 1062
                                lffill.
                                desc : $BBLOCK[dsc$c_s_bln],
                 1064
                                status, status2;
                 1065
                 1066
975
                 1067
                          $init_dyndesc(desc);
                                                                                        ! Make a dynamic descriptor
976
977
                 1068
                 1069
978
                             Parity.
979
                 1071
                 1072
980
                          status = cli$present (SD_PARITY);
901
                           If .status
                                                                                        ! If present,
982
                 1074
                           THEN
983
                 1075
                                BEGIN : say that we want to change parity = .parity OR tt$m_parity OR tt$m_altrpar;! parity, assume even. If cli$get_value(SD_PARITY, desc) ! If a parity value given
                 1076
984
985
986
987
                 1078
1079
                                THEN
                                     BEGIN
                                     988
                 1080
989
                 1081
                 1082
990
991
                                          BEGIN
992
                 1084
                                          parity = .parity OR tt$m_odd;
```

VAX-11 Bliss-32 V4.0-742

```
[CLIUTL.SRC]SETTERM.B32:1
                1085
                                      flags[set$v_odd] = 1;
                1086
1087
 994
                                      END
                                 995
 996
                1088
               1089
1090
1091
1092
1093
 997
                                 ELSE IF [H$EQL(.desc[dsc$w_length], .desc[dsc$a_pointer], .desc[dsc$w_length], .term$_none[1])
 998
 999
1000
                                 THEN status = clis_negated
1001
                                 ELSE
1002
                1094
                                      BEGIN
                1095
1003
                                      SIGNAL(set$_invquaval, 2, desc, SD_PARITY);
1004
                1096
                                      RETURN 0:
                1097
1005
                                      END;
                1098
1006
                                 END:
1007
                1099
                             END:
1008
                1100
                         IF .status EQL cli$_negated
1009
                1101
                        THEN
                1102
1010
                             BEGIN
1011
                             parity = (.parity_OR tt$m_altrpar) AND NOT (tt$m_parity OR tt$m_odd);
1012
                1104
                             flags[set$v_nopar] = 1;
1013
                1105
               1106
1014
1015
                           frame size
1016
                1108
1017
                1109
                         IF cli$present (SD_FRAME)
1018
                1110
                        THEN
1019
                1111
               1112
1020
                             LOCAL frame:
1021
                             If cli$get_value(SD_FRAME, desc)
1022
                1114
                             THEN
                1115
1024
                1116
                                 If NOT lib$cvt_dto(.desc[dsc$w_length],
1025
                1117
                                                       .desc[dsc$a_pointer],
1026
                1118
                                                      frame)
1027
                1119
                                 THEN
1028
                1120
                                      BEGIN
1029
                1121
                                      SIGNAL(set$_invquaval, 2, desc, SD_FRAME);
               1122
1030
                                      RETURN 0:
1031
                                 END:
1F NOT (.frame EQL 0
1032
                1124
                1125
                                 OR (.frame GEQ
               1126
1034
                                 AND .frame LEQ 8))
1035
                                 THEN
               1128
1129
1130
1036
1037
                                      SIGNAL(set$_invquaval, 2, desc, SD_FRAME);
1038
                                      RETURN 0;
                1131
1039
                                      END:
               1132
1040
                                 END:
1041
                             parity = tt$m_altframe or parity; ! say alter the frame size
parity <0,4> = .frame;
1042
                1134
                1135
                             flags[set$v_frame] = 1;
               1136
1137
1044
                             end:
1045
1046
               1138
1139
                           Page length
                      Ž İF c
2 THEN
1048
                1140
                         If cli$present(SD_PAGE)
1049
```

```
1142
1050
                             BEGIN
                             LOCAL page;
flags[set$v_page] = 1;
1051
1052
                1144
1053
                1145
                             page = 0:
               1146
1054
                             If cli$get_value(SD_PAGE, desc)
1055
                             THEN
               1148
1149
1150
1056
1057
                                 IF NOT lib$cvt_dtb(.desc[dsc$w_length]
1058
                                                       .desc[dsc$a_pointer],
               1151
1152
1153
1059
1060
                                 THEN
1061
                                      BEGIN
               1154
1062
                                      SIGNAL(set$_invquaval, 2, desc, SD_PAGE);
                                      RETURN 0:
               1156
1064
                                      END:
1065
                                 IF .page LSS 0
                1158
1066
                                 OR .page GTR 255
               1159
1067
                                 THEN
1068
               1160
               1161
1069
                                      SIGNAL(set$_invquaval, 2, desc, SD_PAGE);
               1162
1070
                                      RETURN 0:
1071
                                      END;
1072
               1164
                                 END:
               1165
                             info_block[term$b_page] = .page;
1074
               1166
1075
               1167
1076
               1168
               1169
1077
                          Page width
               1170
1078
1079
               1171
                        If cli$present(SD_WIDTH)
               1172
1080
                        THEN
1081
                             BEGIN
1082
               1174
                             LOCAL width;
1083
               1175
                             flags[set$v_width] = 1;
               1176
1084
                             width = 0:
1085
                             IF cli$get_value(SD_WIDTH, desc)
               1178
1086
                             THEN
1087
                                 BEGIN
1088
               1180
                                 IF NOT lib$cvt_dtb(.desc[dsc$w_length],
               1181
1089
                                                       .desc[dsc$a_pointer],
               1182
1090
                                                      width)
1091
                                 THEN
1092
               1184
                                      BEGIN
1093
               1185
                                      SIGNAL(set$_invquaval, 2, desc, SD_WIDTH);
1094
                1186
                                      RETURN 0;
1095
               1187
                                      END:
1096
               1188
                                 IF .width LSS 0
1097
               1189
                                 OR .width GTR 511
1098
               1190
                                 THEN
                1191
1099
                                      BEGIN
               1192
1100
                                      SIGNAL(set$_invquaval, 2, desc, SD_WIDTH);
1101
                                      RETURN 0:
1102
               1194
1195
                                      END;
                                 END:
               1196
1104
                             info_block[term$w_width] = .width;
1105
                             END;
                1198
1106
```

1109 1110

1111 1112

1113

1114 1115

1116

1117

1118

1119 1120 1121

1122

1124

1126

1128

1130

1131 1132

1133

1134

1135

1140 1141

1142

1143 1144

1145 1146

1147

1148

1149

1150

1151

1152

1154

1155

1156

1157 1158

1159

1160

1161

1162 1163

1255

```
CRfill
          crfill = 0:
          IF cli$present(SD_CRFILL)
          THEN
1206
                flags[set$v_cr] = 1;
1208
                IF_cli$get_value(SD_CRFILL, desc)
1209
1210
1211
1211
1211
1211
1211
1212
1222
1223
1223
1233
1233
1233
                     BEGIN
                     crfill)
                     THEN
                          SIGNAL(set$_invquaval, 2, desc, SD_CRFILL);
                          RETURN 0:
                          END;
                     END:
                IF .crfill LSS 0
                OR .crfill GTR 9
                THEN
                     SIGNAL(set$_invquaval, 2, desc, SD_CRFILL);
                     RETURN 0:
                     END:
               IF .crfill EQL O
               THEN tt1_clr = .tt1_clr OR tt$m_crfill
ELSE tt1_set = .tt1_set OR tt$m_crfill;
fill<0.8> = .crfill
               END:
1234
1235
1236
1237
1238
1239
          ! LFfill
          lffill = 0;
          If cliSpresent(SD_LffILL)
          THEN
1240
1241
1242
1243
               BEGIN
                flags[set$v_lf] = 1;
                If cli$get_value(SD_LffILL, desc)
                THEN
1244
                    BEGIN
                     If NOT lib$cvt_dtb(.desc[dsc$w_length],
1246
                                             .desc[dsc$a_pointer],
                                             lffill)
1248
1249
1250
1251
1252
1253
                    THEN
                          SIGNAL(set$_invquaval, 2, desc, SD_LffILL);
                          RETURN 0;
                         END;
                    END:
               IF .lffill LSS O OR .lffill GTR 9
1254
```

G 12

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14-Sep-1984 12:09:20

VAX-11 Bliss-32 V4.0-742

[CLIUTL.SRC]SETTERM.B32:1

```
1256
1257
1258
1259
1260
1261
1164
                               THEN
1165
                                    BEGIN
1166
                                    SIGNAL(set$_invquaval, 2, desc, SD_LFFILL);
1167
                                    RETURN 0:
                               IF . Lffill EQL O
1168
1169
                 1262
1263
1264
1170
                               THEN tt1_clr = .tt1_clr OR tt$m_lffill
ELSE tt1_set = .tt1_set OR tt$m_lffill;
1171
1172
                               fill<8,85 = .lffill
1173
                 1265
1266
1267
1268
1269
1270
1271
1272
1273
                               END:
1174
1175
1176
                             When storing the fill characteristics above, it is important that
1177
                             changing one doesn't zero out the other, because either or both
1178
                             may have previously been set (by get_term_def).
1179
1180
1181
                 1274
1275
1276
1277
1278
1279
1182
                             Speed.
1183
1184
                          If cli$present(SD_SPEED)
1185
                          THEN
1186
                               BEGIN
1187
                               if .flags[set$v_perm]
                 1280
1188
                               THEN tt2_clr = .tt2_clr OR tt2$m_autobaud;
1189
                 1281
                               flags[set$v_speed] = 1;
                 1282
1190
                               speed = 0:
                               INCR j FROM O TO 1 DO
1191
                                    BEGIN
1192
                 1284
1193
                 1285
                                    If cli$get_value(SD_SPEED, desc)
THEN_INCR i FROM 0 to term$_spdnum-1 DO
                 1286
1194
1195
                 1287
                                        BEGIN
                                        1288
1196
1197
                 1289
                 1290
1198
1199
                 1291
                 1292
1200
                                        END:
1201
                                    END:
1202
                 1294
                               END:
1203
                 1295
1204
                 1296
1205
                 1297
                             There are a number of different keywords which cause bits in the
1206
                 1298
                             two characteristics longwords to be set. This is relatively simple,
1207
                 1299
                             since most keywords correspond to the setting of a corresponding bit
                 1300
1208
                             and the negation of a keyword causes the bit to be cleared. Deal with
1209
                 1301
                             those here.
                 1302
1210
                             -Exception:
                                            The qualifier /DEC_CRT does not uniquely correspond with
1211
                                             a characteristic. Instead it can have two values, 1 or 2
                 1304
1305
1306
1307
1308
1309
1310
1311
1312
1212
                                             which can modify the characteristics, decert and decert2. Therefore this qualifier is a special case which is proc-
1213
1214
                                             essed further on in this routine.
1215
1216
                          INCR i FROM O TO term$_ttset_num-1 DO
                                                                                             ! 1st char longword
1217
                               BEGIN
1218
1219
1220
                               status = cli$present(.term$_ttset_key[.i]);
                               If .status
                               THEN tt1_set = .tt1_set OR .term$_ttset_bit[.i]
```

1239

1240

1241 1242 1243

1244

1245

1246

1247

1248

; 1249

1268 1269 1270

1313 1314 1315 1316 1317 1318 1319 1320 ELSE If .status EQL cli\$\_negated THEN tt1\_clr = .tt1\_clr OR .term\$\_ttset\_bit[.i]; END: INCR i FROM 0 TO term\$\_tt2set\_num-1 DO ! 2nd char longword BEGIN status = cli\$present(.term\$\_tt2set\_key[.i]); If .status THEN tt2\_set = .tt2\_set OR .term\$\_tt2set\_bit[.i]
ELSE IF .status EQL cli\$\_negated
THEN tt2\_clr = .tt2\_clr OR .term\$\_tt2set\_bit[.i]; 1321 1322 1323 1324 1325 Now for the corkers. Some (6 at present) keywords cause bits to be cleared; and the negation of those keywords causes the 1328 1329 1330 1331 1332 1333 1334 bit to be set. So... INCR i FROM O to term\$\_ttclr\_num-1 DO BEGIN status = cliSpresent(.termS\_ttclr\_key[.i]); If .status THEN tt1\_clr = .tt1\_clr\_OR .term\$\_ttclr\_bit[.i] ELSE IF .status EQL clis\_negated 1336 1337 END: INCR i FROM 0 to term\$\_tt2clr\_num-1 DO 1338 1339 BEGIN 1340 status = cli%present(.term%\_tt2clr\_key[.i]); 1341 If .status 1342 THEN tt2\_clr = .tt2\_clr OR .term\$\_tt2clr\_bit[.i] "LSE If .status EQL cli\$\_negated 1344 THEN tt2\_set = .tt2\_set OR .term\$\_tt2clr\_bit[.i]; 1345 1346 ! LOCAL ECHO IMPLIES NOECHO 1348 1349 status = cli%present(%ASCID 'LOCAL\_ECHO'); 1350 If .status 1351 THEN tt1\_set = .tt1\_set OR tt\$m\_noecho 1352 ELSE IF .status EQL clis\_negated 1354 1355 1356 1357 ! Dismiss parity error modifier has a bit set in the parity longword 1358 status = cli\$present(%ASCID 'DISMISS\_PARITY'); 1359 IF .status THEN 1360 1361 1362 flags[set\$v\_dismis] = 1; parity = .parity OR tt\$m\_altdispar OR tt\$m\_disparerr; 1364 1365 END: If .status EQL clis\_negated 1366 1367 THEN BEGIN 1368 flags[set\$v\_nodism] = 1; 1369

parity = .parity OR tt\$m\_altdispar;

1332 1333

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               END:
1372
1373
1374
1375
             Qualifier - / [NO]DEC_CRT[=number]
This qualifier can set on or _ff the characteristics, Dec_CRT and DEC_CRT2
If the number specified is 1 (also the default value) the characteristic to modify is dec_crt. If the number is 2 then the characteristic is DEC_CRT2.
1376
1377
1378
          status = cli$present( SD DEC (RT) :
1379
          If (.status OR (.status EQL clis_negated)) THEN
1380
               BEGIN
1381
               status2 = cli$get_value(SD_DEC_CRT, desc) ;
1382
1383
               INCR J FROM 0 TO T DO
                    BEGIN
1384
                    IF NOT .status2 THEN
1385
                         deccrt = 1
1386
                    ELSE
1387
                         BEGIN
1388
                         IF NOT lib$cvt_dtb(.desc[dsc$w_length]
1389
                                                 .desc[dsc$a_pointer],
1390
                                                   deccrt)
1391
                         THEN
1392
1393
                              SIGNAL(set$_invquaval, 2, desc, SD_DEC_(RT);
1394
                              RETURN 0:
1395
                              END:
1396
                         END:
1397
                     IF ((.deccrt NEQ 1) AND (.deccrt NEQ 2)) THEN
1398
1399
                           SIGNAL(set$_invquaval, 2, desc, SD_DEC_CRT);
1400
                           RETURN 0:
1401
                           END:
1402
                     IF .status THEN
                         BEGIN
1404
                                 .deccrt EQL 1 THEN
1405
                                   decort_set = .decort_set OR tt2$m_decort OR tt2$m_ansignt
1406
1407
                              ELSE
                                   deccrt_set = .deccrt_set OR tt2$m_deccrt2 OR tt2$m_deccrt OR tt2$m_ansicrt
1408
                         END:
1409
                        .status EQL cli$_negated THEN
1410
                         BEGIN
1411
                                 .deccrt EQL 1 THEN
1412
                                   decort_clr = .decort_clr OR tt2$m_decort OR tt2$m_decort2
                         ELSE
1414
                                   deccrt_clr = .deccrt_clr OR tt2$m_deccrt2;
                     END;
status2 = cli$get_value(SD_DEC_CRT, desc);
1415
1416
                     IF NOT .status2 THEN exittoop;
1418
1419
                    END :
               END :
1420
1421
1422
1423
1424
1425
            One more special condition. If ansicrt was turned off then
```

decert levels 1 and 2 must also be turned off since they are

a superset of ansicrt.

status = cli\$present(%ASCID 'ANSI\_CRT');

J 12

```
K 12
SETTERM
                                                                     16-Sep-1984 01:10:06
                                                                                               VAX-11 Bliss-32 V4.0-742
                                                                                                                                      Page
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                                                                     14-Sep-1984 12:09:20
                                                                                               [CLIUTL.SRC]SETTERM.B32:1
                 1427
1428
1429
1430
 If .status EQL clis_negated_THEN
                             1431
1432
1433
                           Now set/clear the bits, using STATUS as a mask longword.
                         1434
                         OR .tt1_set;
status = .tt2_set OR .tt2_clr OR .deccrt_set OR .deccrt_clr;
info_block[term$l_set2] = .info_block[term$l_set2]
AND NOT .status
                 1436
                 1437
                 1438
                 1439
                 1440
                                                      OR .tt2_set
                 1441
                                                      OR .deccrt_set;
                 1442
 1350
  1351
                          ! If /AUTOBAUD was specified, and no speed, then set the speed to 9600
 1352
                 1444
 1353
                 1445
                 1446
 1354
                         If (.tt2_set AND tt2$m_autobaud) NEQ 0
                                                                              ! If /AUTOBAUD specified
 1355
1356
1357
                 1447
                         AND .speed EQL 0
                                                                              ! and no speed set
                 1448
                         THEN speed = tt$c_baud_9600;
                 1449
 1358
                 1450
                         RETURN 1:
 1359
                 1451
                         END:
                                                                                .PSECT $PLIT$, NOWRT, NOEXE, 2
                                                                                       \LOCAL_ECHO\<0><0>
17694730
                                 45 55 4C 41 43 4F 4C
                                                                00190 P.ABT:
                                                                                .ASCII
                                                      010E000A
                                                                0019C P.ABS:
                                                                                .LONG
                                                      00000000
                                                                001A0
                                                                                .ADDRESS P.ABT
                52 41
                         50
                              SF.
                                  53
                                     53 49
                                                   53 49 44
                                               4D
                                                                001A4 P.ABV:
                                                                               .ASCII \DISMISS_PARITY\<0><0>
                                                            00
                                                                001B3
                                                      010E000E
                                                                001B4 P.ABU:
                                                                                .LONG
                                                                                      17694734
                                                                                .ADDRESS P.ABV
                                                      00000000
                                                                001B8
                              54 52 43 5F 49 53
                                                       4E 41
                                                                001BC P.ABX:
                                                                                .ASCII \ANSI_CRT\
                                                                                      17694728
                                                      010E0008
                                                                001C4 P.ABW:
                                                                                .LONG
                                                      00000000
                                                                00168
                                                                                .ADDRESS P.ABX
                                                                                .PSECT $CODE$,NOWRT,2
                                                           OFFC 00000 GET_VALUES:
                                                                                        Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11
#36, SP
DATA_BUFFER, R4
4(R4), R10
                                                                                                                                         1028
                                                                                . WORD
                                          5E
54
5A
                                                             CS 00005
                                                                               SUBL 2
                                                             DO 00005
                                                         AC
                                                                               MOVL
                                                                                                                                         1052
                                                   04
08
00
                                                             9E 00009
                                                        A4
A4
A4
A4
                                                                               MOVAB
                                                             9Ē
                                                                0000D
                                                                               PUSHAB
                                                                                        8(R4)
                                          5B
                                                             9E 00010
                                                                               MOVAB
                                                                                        12(R4), R11
                                                   ĬŎ
                                                             9F
                                                                               PUSHĀB
                                                                00014
                                                                                        16(R4)
                                          56
58
57
                                                   14
                                                             9E
                                                                00017
                                                                               MOVAB
                                                                                        20(R4), R6
                                                             9Ĕ
                                                                0001B
                                                                               MOVAB
                                                                                        28(R4), R8
                                                    28
30
                                                             9Ĕ
                                                                                        40(R4), R7
                                                                0001F
                                                                               MOVAB
                                                             9F 00023
```

60(R4)

PUSHAB

					16 14	12 -Sep-1984 01:10 -Sep-1984 12:09	:06 VAX-11 Bliss-32 V4.0-742 :20 [CLIUTL.SRC]SETTERM.B32;1	Page 38 (7)
	20	AE	020E0000	84 8f	9F 00026 D0 00029	PUSHAB MOVL	64(R4) #34471936, DESC	: 1067
	0000000G	00	0000	AE CF 01	D4 00031 9F 00034 FB 00038	CLRL PUSHAB CALLS	DESC+4 SD_PARITY #1, CLISPRESENT	1072
		59 60 66	60	50 59 8f AE	00 0003F E9 00042 88 00045	MOVL BLBC BISB2	RO, STATUS STATUS, 4\$	1073
			0000.	( t	9F 00049 9F 0004C	PUSHAB PUSHAB	#96, (Å6) DESC SD_PARITY	: 1076 : 1077
	0000000G	00 48 55	<b>2</b> C	02 50 <b>AE</b> 00 55	FB 00050 E9 00057 3C 0005A	CALLS BLBC MOVZWL	#2, CLISGET_VALUE R0, 4\$ DESC, R5	1000
60	30	50 BE	00000000		DO 0005E 29 00065	MOVL CMPC3	R5, abesc+4, (R0)	; 1080 ; 1081 ; 1080
		66 68	80	09 8f 04	12 0006A 88 0006C 88 00070	BNEQ BISB2 BISB2	1\$ #128, (R6) #4, (R8)	1084 1085
	70	50	000000006	30 00 55	11 00073 DO 00075	BRB 1\$: MOVL	4\$ TERM\$ EVEN+4, RO	; 1080 ; 1088
60	30	BE 68		05 08	29 0007C 12 00081 88 00083	CMPC3 BNEQ BISB2	R5, aBESC+4, (R0) 2\$ #8, (R8)	1087
40	70	50	000000006	1D 00 55	11 00086 DO 00088	BRB 2\$: MOVL	TERMS_NONE+4, RO	1091
60	30	BE 59	0000000G	99 8f	29 0008F 12 00094 00 00096	CMPC3 BNEQ MOVL	R5, aDESC+4, (R0) 3\$ #CLI\$_NEGATED, STATUS	; 1090 ; 1092
			0000'	06 CF	11 0009D	BRB 3\$: PUSHAB	48 SD_PARITY	1095
	00000006	8F		5F 59	11 000A3 D1 000A5	BRB 4\$: CMPL	STATUS, #CLIS_NEGATED	1100
50 66			00000000	0F 8F	12 000AC CB 000AE	BNEQ BICL3	5 <b>\$</b>	1103
00		50 68	0000	20 10 CF	C9 000B6 88 000BA 9F 000BD	BISL3 BISB2 5\$: PUSHAB	#32, RO, (R6) #16, (R8) SD_FRAME #1, CLISPRESENT RO, 9\$ DESC SD_FRAME #2, CLISGET_VALUE RO 8\$	1104 1109
	0000000G	00 49		01 50	FB 000C1	CALLS BLBC PUSHAB	N1. CLISPRESENT RO. 9\$	
	000000006	00	0000. 50	AE CF	9F 000CB 9F 000CE FB 000D2 E9 000D9 9F 000DC DD 000DF	PUSHAB	DESC SD_FRAME #2 CLISCET VALUE	1113
		2 <b>A</b>	14	50 AE	E9 000D9 9F 000DC	CALLS BLBC PUSHAB	RO. 8\$ FRAME	1116
	00000000	7E 00	34 34	02 50 AE AE 03	3L UUUE2	PUSHL MOVZWL	DESC+4 DESC(SP)	: 1117 : 1116
	0000000G	10 50	14	50 AE 10	FB 000E6 E9 000ED D0 000F0	CALLS BLBC Moyl	#3, LIB\$CVT_DTB R0, 6\$ FRAME, R0	1124
		05		50	13 000F4	BEQL CMPL	8 <b>\$</b> RQ, #5	1125
		08		05 50	D1 000F6 19 000F9 D1 000FB 15 000FE	BLSS CMPL	6\$ RO, #8	1126
66		56	0000	06 CF 5B 10	15 000FE 9F 00100 ( 11 00104 ( C9 00106 (	BLEQ 6\$: PUSHAB 7\$: BRB 8\$: BISL3	8\$ SD_FRAME 11\$ #16, R6, (R6)	1129 1133

					M 12 16-Sep-1 14-Sep-1	984 01:10 984 12:09	0:06 VAX-11 Bliss-32 V4.0-742 D:20 [CLIUTL.SRC]SETTERM.B32;	Page 39
04	01	00 <b>88</b>	14	AE F 04 8	0 0010A 8 00110	INSV	FRAME, #0, #4, (R6)	: 1134
	_		0000	CF 9	F 00114 98.	BISB2 PUSHAB	#4, 1(R8) SD_PAGE	; 1135 ; 1140
	0000000G	00 46 <b>A8</b>		50 F	B 00118 9 0011F 8 00122 4 00126	CALLS BLBC	#17 CLISPRESENT RO, 138	•
	01	Aō	18	AE D	8 00122 4 00126	BISB2 CLRL	W2, 1(R8) PAGE	: 1144 : 1145
			0000	02 8 AE D AE 9 CF 9	F 00129	PUSHAB PUSHAB	DESC	1146
	0000000G	00 29		02 F 50 E AE 9 AE 03 F	B 00130 9 00137	CALLS BLBC	SD_PAGE #2, CLI\$GET_VALUE R0, 12\$	
			18 34 34	AE 9	F 0013A	PUSHAB PUSHL	RO, 12\$ PAGE DESC+4	1149 1150
	0000000G	7E 00	34	AE 3	C 00140	MOVZWL CALLS	DESC(SP) #3, LIB\$CVT_DTB	1149
		ŎF	18	50 E	9 0014B 5 0014E 9 00151	BLBC TSTL	RO. 10\$ PAGE	1157
	000000FF	8F	18	0A 1	9 00151	BLSS	10\$	: 1157
	UUUUUFF	or		AE D	5 0015B	CMPL BLEQ	PAGE, #255 12\$	: 1158
		. =	0000'	CF 9	1 00161 115:	PUSHAB BRB	SD_PAGE 15\$	: 1161
	07	A7	18 0000	AE 9 CF 9	F 00168 13\$:	MOVB PUSHAB	PAGE, 7(R7) SD_WIDTH	: 1165 : 1171
	0000000G	00 46		01 F 50 E	B 0016C 9 00173	CALLS	SD_WIDTH #1, CLI\$PRESENT R0, 17\$	
	01	46 A8	10	01 8 AE D	8 00176	BLBC BISB2 CLRL	RO, 17\$ #1, 1(R8) WIDTH	1175 1176
			0000 <b>.</b>	AE 9	F 0017D	PUSHAB PUSHAB	DESC	1177
	0000000G	00 29	0000	02 F	8 00184	CALLS	SD_WIDTH #2, CLISGET_VALUE	:
		27	10	50 E AE 9 AE D	F 0013E	PUSHAB	RO, 16\$ WIDTH	1180
		7E 00	1 C 3 4 3 4	AE D	D 00191 C 00194	PUSHL MOVZWL	DESC+4 DESC, -(SP)	: 1181 : 1180
	00000000	00 0f		03 F	C 00194 B 00198 9 0019F	CALLS BLBC TSTL	#3, LIB\$CVT_DTB R0, 14\$	:
			10	AE D	5 001A2 9 001A5	BLSS	DESC, -(SP) #3, LIB\$CVT_DTB R0, 14\$ WIDTH 14\$	1188
	000001FF	8F	10	AE D 06 1	1 001A7 5 001AF	CMPL BLEQ PUSHAB	WIDTH, #511 16\$	1189
			0000	ČF 9 4E 1	9 0019F 5 001A2 9 001A5 1 001A7 5 001AF F 001B1 14\$: 1 001B5 15\$: 0 001B7 16\$: 4 001BC 17\$: F 001BF	PUSHAB BRB	SD WIDTH 20\$	1192
	02	A7	10	AE B	0 001B7 16\$:	MCVW	WIDTH, 2(R7)	1196
	00000000	00	10 20 0000	CF 9	F 001BF	CLRL PUSHAB	CRFILL SD_CRFILL #1, CLI\$PRESENT R0, 24\$ #64, (R8) DESC SD_CRFILL #2, CLI\$GET_VALUE	; 1202 ; 1204
	0000000G	00 40		01 F	B 001C3 9 001CA	CALLS BLBC	RO, 24\$	
		68	40 20 0000	8F 8	8 001CD F 001D1	BLBC BISB2 PUSHAB	W64, (R8) DESC	1207 1208
	0000000G	00	0000	(F 9	F 001D4 B 001D8	PUSHAB CALLS	SD_CRFILL #2, CLI\$GET_VALUE	
		14	20	50 E	9 001DF F 001E2	PUSHAB CALLS BLBC PUSHAB	RO, 18\$ CRFILL DESC+4	1211
	000000006	7E 00	20 34 34	AE D		PUSHL MOVZWL CALLS	DESC+4 DESC, =(SP) #3, LIB\$CVT_DTB	1211 1212 1211

						1	N 12 6-Sep- 4-Sep-	-1984 01:10 -1984 12:09	:06 :20	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETTERM.B32;1	Page 40 (7)
			0B 52	50 20 AE	E9	001F3 001F6	18\$:	BLBC Movl	RO, CRÉ II	19 <b>\$</b> LL, R2	; ; 1220
			09	05 52	19 D1	001FA		BLSS CMPL	195	<b>19</b>	1221
				0000° CF	15 9f	001FF 00201	19\$:	BLEQ Pushab	21\$	RFILL	1224
				5A 52	11 05 12	00205 00207	20 <b>\$</b> : 21 <b>\$</b> :	BRB TSTL	27 <b>\$</b> R2 22 <b>\$</b>		1227
		01	AA	06 04	- 88	0020B		BNEQ BISB2	22 <b>\$</b> #4 23 <b>\$</b>	1(R10)	; 1228
		01 18	A4 A4	04 04	11 88 90	00207	22\$:	BRB BISB2	#4.	1 (R4)	1229
		10	~~	04 52 24 AE 0000' CF	96 9f	00215 00219	248:	MOVB CLRL PUSHAB	LFFII	24(R4) LL 55 to 1	; 1229 ; 1230 ; 1236 ; 1238
	C	0000000G	90	01 50	FB E9	00219 00210 00227 00227 0022A 0023A 0023B 0023B 00241 00244		CALLS	#1, RO	FILL CLISPRESENT 318	; 1238
			4 C 68	20	88 9f	0022A		CALLS BLBC BISB2 PUSHAB	W32.	(R8)	: 1241 : 1242
	C	0000000G	00	0000' CF	9F FB	00230 00234		PUSHAB	SD_LI	FFILL CLISGET_VALUE	
			14	50	E9 9F	0023B 0023E		CALLS BLBC PUSHAB	RÖ.	25 <b>\$</b> L	1245
	,	20000000	7E 00	24 AE 34 AE 34 AE	DD 30	00241		PUSHL MOVZWL	DESC	-(SP)	: 1246 : 1245
	·	00000000	00 0B 52	03 50	FB E9	00248 0024F		CALLS BLBC	RO.	IB\$CVT_DTB 26\$	
			09	24 ÅE 05 52	D0 19 D1	00252 00256 00258 00258	25 <b>\$</b> :	MOVL BLSS	26\$	LL, R2	1254
			07	0000' CF	15 9F	0025B 0025D	268.	CMPL BLEQ PUSHAB	28 <b>\$</b>	Y9 FFILL	1255
				020F	31 05	00261	27\$:	BRW TSTL	59 <b>\$</b>	1166	1261
		01	AA	52 06 08 04	12 88	00266 00268		BNEQ BISB2	29\$	I (R10)	1262
		01 19	A4	04 08 52	11	00260		BRB BISB2	₹Λ <b>€</b>		1263
			A4	0000° CF	90 9F	0026E 00272 00276 0027A 00281	30 <b>\$</b> :	MOVB Pushab	R2.	I(R4) 25(R4) PEED CLISPRESENT 375	: 1264 : 1276
		00000000	00 51	01 50	FB E9	0027A 00281		CALLS BLBC	#1, ( RO, 3	CLISPRESENT 37\$	
	03		68 68 68	01 02 80	E1 88 88	00284 00288	70¢.	BBC B1SB2	# 1 A 1	(R8), 32\$ (R11) , (R8)	1279 1280
			00	80 8F 08 BE 10 AE 2C AE	D4 D4	0028B 0028F 00292	32\$:	BISB2 CLRL CLRL	38 (SF	) (RO)	1281 1282 1283
				2Č ÂĒ 0000 ÇF	9F 9F	NN 295	33\$:	CLRL PUSHAB PUSHAB	DESC SD_SF	PEED	1283 1285
	C	00000000	00 AS	02 50	FB E9	0029 <u>C</u> 002 <b>A</b> 3		CALLS BLBC	#2. (RO.	CLISGET VALUE	
			2A 55	01 1D	2E	00246	<b>.</b>	MNEC Brb	35\$		1289
04	В0	30	50 BE	000000000045 2C AE	29 29	002B3	34\$:	MOVL CMPC3	TERM! DESC	SSPDBLK[1], RO Cades(+4, a4(RO)	: 1290 : 1289
	50	08	BE	0 C 0 8	12 78	005BC		BNEQ ASHL	55 <b>5</b>	18(SP), RO	1291

						10	8 13 6-Sep-19 4-Sep-19	984 01:10 984 12:09	:06 VAX-11 BL'ss-32 V4.0-742 :20 [CLIUTL.SRC]SE:TERM.B32;1	Page 41 (/)
80	96		50	55	Ç9	00201		BISL3	I, RO, a8(SP)	;
	<b>98</b> (0	10	55 AF 52	000000000 8F 01 01 2F	F3 F3 (E	002C6 002D0 002D5	35\$: 36\$: 37\$:	BRB AOBLEQ AOBLEQ MNEGL	#TERM\$ SPDNUM-1, I, 34\$ #1, J, 33\$ #1, I	1286 1283 1308
		0000000G	00 59 0A	00200000000042 01 20	11 DD FB DO E9	00208 0020A 002E1 002E8 002EB	38\$:	BP9 PUSHL CALLS MCVL BLBC	40\$ TERM\$ TISET KEY[I] #1, C[I\$PRESENT RC, STATUS STATUS 30\$	; 1310 ; 1311
			64	00000000000042		C22EE 002F6		BISL2 BRB	STĂTŪS, 39\$ TERM\$_TTSE;_B;T[1], (R4) 40\$	: 1312
		0000000G	8F	59 08	) j	002F8 002FF	348:	CMPL BNEQ	STATI'S, #CLIS_NEGATED	1313
	(9		6A 52 52	00000000000042 000000006 8F 01 30	C8 F3 CE 11	00301 00309 00311 00314	40\$:	BISL2 AOBLEQ MNEGL BRB	TERMS_TTSET_BIT[1], (R10) #TERMS_TTSET_NUM-1, 1, 38\$ #1, 1 43\$	1314 1308 1316
		00000000G	00 59	000000000000942 01 50	DD FB DO	00316 0031D 00324	41\$:	PUSHL CALLS MOVL	TERMS TT2SET KEY[1] W1, C[1\$PRESENT RO, STATUS STATUS, 42\$	1318
		00	OB BE	0000000000042	E 9	00327 0032A		BLBC BISL2	IEKMD_(IZSEI_BIILII, BIZ(SP)	; 1319 ; 1320
		0000000G	8F	11 59	11 01	00333	42\$:	BRB CMPL	STATUS, #CLIS_NEGATED	1321
	<b>68</b>		6B 52 52	00000000000042 000000000 8!	F3 CE	0033C 0033E 00346 0034E	43\$:	BISL2 AOBLEQ MNEGL	43\$ TIRMS_TT2SET_BIT[I], (R11) #TERMS_1T2SET_NUM-1, I, 41\$ #1, I	: 1322 : 1316 : 1330
		900000006	00 59	00000000000042 01 50	FB DO	0035A 00361	44\$:	BRB PUSHL CALLS MOVL	46\$ TERM\$_TTCLR_KEY[I] #1, C[I\$PRESENT R0, STATUS	1332
			0A 6A	000000000042	E9 (8	00364 00367		BLBC BISL2	STATUS, 45\$ TER 1\$_TTCLR_BIT[I], (R10)	; 1333 ; 1334
		00000000G	8F	11 59 08	11 01 12	0036F 00371 00378	45\$:	BRB CMPL BNEQ	46\$ STATUS, #CLI\$_NEGATED 46\$	1335
	(9		64 52 52	0000000050042 000000006 8F 01 30	F3 CE	0638A		BISL2 ADBLEQ MNEGL BRB	TERMS_TTCLR_BIT[I], (R4) #TERMS_TTCLR_NUM-1, I, 44\$ #1, I 49\$	1336 1330 1338
		00000000G	00 59	000000000042 01 50	FB DO	0038D 0038F 00396 0039D	47\$:	DUCHI	TÉRMS TTZCLR KEY[[] #1, C[ISPRESENT RO. STATUS STATUS, 48\$ TERMS_TTZCLR_BIT[I], (R11)	1340
			0A 6B	000000000042	63	003A0 003A3		BISL2	STATUS, 48\$ TERM\$_TT2CLR_BIT[]], (R11)	; 1341 ; 1342
		000000006	8f	12 59	11 D1	003AB 003AD	48\$:	CMPL	STATUS, #CLIS_NEGATED	1343
	(8	00	BE 52	0000000000042 000000006 8F 0000 ÇE	(8 F3	003B4 003B6 003BF 003C7	49\$:	BNEQ BISL2 AOBLEQ PUSHAB	49\$ TERMS_TT2CLR_BIT[1], a12(SP) #TERMS_TT2CLR_NUM-1, 1, 47\$ P.ABS	1344 1338 1349
		02000000G	00 59 05 64	0000 07 01 50 59 02	FB D0 E9	003CB		CALLS MOVL BLBC BISB2	#1, CLISPRESENT RO, STATUS STATUS, 50\$ #2, (R4)	1350 1351

BE

						1	C 13 6-Sep- 4-Sep-	1984 01:10 1984 12:09	:06 VAX-11 Bliss-32 V4.0-742 :20 [CLIUTL.SRC]SETTERM.B32;1	Page 42 (7)
	000000006	8F		0¢	11 01	0030B	Ene.	BRB (MPL	51\$ STATUS, #CLI\$_NEGATED	: 1352
		6A	0000	00 59 03 02 1	D1 12 88 9F	003E4 003E6	£10.	BNEQ BISB2 PUSHAB	51\$ #2, (R10)	: 1353 : 1358
	0000000G	00 59	0000		f B	003ED	)   <b>)</b>	CALLS	P.ABU #1, CLI\$PRESENT PO STATUS	; 1358
	01	80 88		59 08	FB DD E9 88 D1	003F7		MOVL BLBC BISB2 BISB2	#1, CLISPRESENT RO, STATUS STATUS, 528 #8, 1(R8) #6, 1(R6)	1359
	00000000G	A6 8f		01 59 08 069 08	88 D1	0035E6 0035E9 0035F4 0035FA 0035FA	52\$:	BISB2 CMPL	SIAIUS, WLLID_NEGAIED	: 1359 : 1362 : 1363 : 1365
	01 01	A8 A6		10 04	12 88 88	00409 0040B		CMPL BNEQ BISB2 BISB2 PUSHAB	53\$ #16, 1(R8)	<b>:</b>
	000000006	00	0000	' CF	9f f B	00413	53\$:	PUSHAB CALLS	SD_DEC_CRT #1. CLTSPRESENT	1368 1369 1378
		59 00 8F		50 59	DO E8	0041E		MOVL BLBS CMPL	#4, 1(R6) SD_DEC_CRT #1, CLI\$PRESENT R0, STATUS STATUS, 54\$	1379
	0000000G	8F		59 03 00AD	כו	- UU428		BEQL	STATUS, MCLIS_NEGATED 548 658	
			0000 2C	ΑE	31 9F 9F	0042D 00430 00433	54\$:	BRW PUSHAB PUSHAB	DESC SD DEC CRT	1381
	0000000G	00 55 52		02	FB DO	00437 0043E		CALLS MOVL	DESC SD_DEC_CRT #2, CLI\$GET_VALUE RO, STATUS2 STATUS2, R2	
				50 55 53 52	D2 D4 E9		55\$:	MCOML CLRL	J	1384
	28	06 AE		01	DÓ 11		)) <b>#</b> ;	BLBC Movl Brb	R2, 56\$ #1, DECCRT 57\$	1385
		•	28 34 34	AE AE AE 03	9f DD	0044F 00452		PUSH <b>AB</b> PUSHL	DECCRT DESC+4	1388 1389 1388
	0000000G	7E 00 00	34	03 50	30 FB	00455 00459 00460		MOVZWL CALLS	DESC, -(SP) #3, LIB\$CVT_DTB	; 1388
		01	28	AE 15	D1 13	00465	57\$:	BLBC CMPL BEQL	RO, 58\$ DECCRT, #1 60\$	1397
		02	28	AE 19	D1 13	00469		CMPL Beql	DECCRT, #2 60\$	
			0000 30	' CF AE 02	9F 9F DD	0046F 00473 00476	58 <b>\$</b> : 59 <b>\$</b> :	PUSHAB PUSHAB PUSHL	SD_DEC_CRT DESC #2	1399
	00000000G	00	0077132A	8F 04	DD FB	00478 0047E		PUSHL CALLS	#7803690 #4, LIB\$SIGNAL	
		18 01	20	00AE 59	31 E9	00485 00488	60\$:	BRW BlbC	68\$ STATUS, 62\$	1400 1402
	04		28 21000000	AE OA RE	D1 12 CR	0048B 0048F 00491		CMPL BNEQ BISL2	DECCRT, #1 61\$ #553648128, @4(SP)	1404
	-	BE	61000000	8F 08 8F 59 14	(8 11 (8	00499	61\$:	BRB BISL2	62 <b>\$</b> #1627389952, <b>a</b> 4(SP)	1407
	00000000G	8F		59 14	D1 12	004AA	62 <b>\$</b> :	CMPL BNEQ	STATUS, #CLIS_NEGATED 64\$	1409
02		01 1D	28	AE 08 03 06	D1 12 F0			CMPL BNEQ INSV	DECCRT, #1 63\$ #3, #29, #2, @0(SP)	1411
		. •		06	11	004B8		BRB	64\$	

SETTERM V04-000								D 13 16-Sep-1 14-Sep-1	984 01:10 984 12:09	0:06 9:20	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETTERM.B32;1	Page 43 (7)
00 BE		01		1E	0000.	O1 AE	F 0 9 F	F 004C0 64 <b>5</b> :	INSV PUSHAB	#1 #3 DESC	30, #1, <b>a</b> 0(SP)	; 1414 ; 1416
			0000000G	00 55 52 06 01	0000	AE C 20 5 5 2 1	F B D D 2	B 004C7 0 004CE	PUSHAB CALLS MOVL MCOML	#2, CL RO, ST	CRT VALUE ATUS POSS POSS POSS POSS POSS POSS POSS PO	1417
FF69		53			0000*	CF	E8 F1 9F	1 004D/ F 004DD 65 <b>\$</b> :	BLBS ACBL PUSHAB	R2, 65 #1, #1 P.ABW	\$	1382 1426
			000000006	00 59 <b>8</b> F		01 50 59 05 8f	FB D0 D1	B 004E1 0 004E8 1 004EB	CALLS MOVL CMPL	#1, CL RO. ST	.ISPRESENT 'ATUS ', #CLIS_NEGATED	1427
		59 50 A7	03 04	AB 64 A7	60	8F 6A 59	12 88 09 08	8 004F4 9 004F9 66 <b>\$</b> :	BNEQ BISB2 BISL3	#96 3 (R10)	RCLIS_NEGATED  (R11) (R4), STATUS	; 1428 1433 ; 1435
	04	A7 50	00	50 BE 50 50	04		(9 (9	9	BICL3 BISL3 BISL3 BISL3 BISL3 BISL3 BISL3	(R4), (R11),	(R4), STATUS 3,4(R7), R0 R0,4(R7) 312(SP), R0 R0, STATUS 8(R7), R0 9), R0 1, R0, 8(R7) 2(SP), 67\$	; 1436 ; 1437
		59 50	08	50 A7 50 50	00 00 04	64BEE9BEE1	(9 (8 (8	9 00510 B 00515 8 0051A	BISL3 BICL3 BISL2	a0(SP) STATUS a12(SP	, RO, STATUS 5, 8(R7), RO 2), RO	1439 1440
	80	A7 09	00	50 BE	04 08	BE 01 BE 04	C9 E1 D5	9 0051E 1 00524 5 00529			2(SP), 67\$	; 1441 1446 ; 1447
			08	BE 50		04 0f 01	12 00 00	2 0052C 0 0052E 0 00532 67 <b>\$</b> :	BNEQ MOVL MOVL	67 <b>\$</b> #15, a #1, R0	)8(SP)	: 1448 : 1450
						50	04 04 04	4 00536 68\$:	RET CLRL RET	RO		1451

; Routine Size: 1337 bytes, Routine Base: \$CODE\$ + 0549

```
1452
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1377
                             ROUTINE inquire_type (data_buffer) =
                             BEGIN
                             I functional description
                                       This routine implements the SET TERM/INQUIRE qualifier. It sends a message to the terminal, saying "who are you?" If the terminal responds, then we try to find a match between the pattern given and
                   1459
                   1460
                  1461
                                        the known patterns that supported DEC terminals give.
                  1462
                                Inputs
                  1464
                                        INFO_BLOCK - the characteristics buffer.
                  1465
                                        INDEX
                                                      - number which points to terminal's terminal block
                   1466
                  1467
                                Outputs
                                        INFO BLOCK - will be changed according to what device type was INDEX - will be a number, which will index to the terminal
                  1468
                  1469
                  1470
1380
                  1471
                  1472
1381
1382
                             MAP
1383
                  1474
                                   data_buffer : REF VECTOR;
1384
                  1475
1385
                  1476
                               Bind the data buffer to names we understand.
1386
                  1477
1387
                  1478
                             bind_data;
1388
                  1479
1389
                  1480
                             LOCAL
1390
                  1481
                                                                                               Pointer to end of answer 
Answer length
                  1482
1483
1391
                                  resp_len,
                                  sequence : REF VECTOR[.BYTE],
resp_buffer : VECTOR[80,BYTE]
1392
                                                                                               Real answer
1393
                  1484
                                                                                               Place to put answer
                                                  INITIAL (REP 20 OF (0)),
1394
                  1485
                                                                                               Zero it out first
1395
                  1486
                                   iosb : VECTOR[4,WORD]
                                                                                              I/O status block
1396
                  1487
                                  tmpblock: $bblock[12].
1397
                  1488
                                  status:
1398
                  1489
1399
                  1490
1400
                  1491
                               There are a number of different request strings, strings which will cause different terminals to respond with their identification string. Loop
                  1492
1401
1402
                                thru these different strings, seeing if the terminal responds to any of
1403
                  1494
                                them.
1404
                  1495
1405
                  1496
                             INCR i fROM 0 to term$_reqnum - 1 DO
1406
1407
                  1497
                                  BEGIN
                  1498
                                  BIND request = .terms_reqblk[.i] : VECTOR;
1408
                P 1499
                                  status = $QIOW(FUNC = io$_readprompt OR io$m_timed OR io$m_purge OR io$m_escape OR io$m_noecho,
               P 1500
P 1501
P 1502
P 1503
P 1504
P 1505
1409
                                                      CHAN = .chan.
1410
                                                      10SB = iosb,
1411
                                                           = resp_buffer,
                                                                                                         Place to store response
                                                      P2
P3
P5
P6
1412
                                                            = %ALLOCATION(resp_buffer),
                                                                                                         How big is the buffer
1413
                                                            = 4.
                                                                                                         Wait several seconds
1414
                                                            = .request[1],
= .request[0]);
                                                                                                         Address of request string,
1415
                  1506
                                                                                                         Length of request string,
1416
                   1507
                                   If .status
                                                                                                         Check both statuses
1417
                  1508
                                   THEN status = .iosb[0]:
```

```
Page 45 (8)
```

```
1418
                              IF (NOT .status) AND
                1510
1419
                                   (.status NEQ ss$_timeout) AND
1420
                1511
                                   (.status NEQ ss$_badescape)
                                                                                            If a real error.
1421
                1512
                                                                                            signal it and
1422
                                   BEGIN
                                                                                            return.
                1514
                                   SIGNAL(set3_writeerr AND NOT sts8m_severity OR sts8k_warning,
                1515
                                           1, dev_desc,
                1516
1517
                                  RETURN 0;
1427
                1518
                                   END:
                              IF . TEOL 1 THE
                1519
                1520
1521
1522
1523
1524
1525
1429
                                   BEGIN
                                       tmpblock
                                                    .info_block;
1431
                                       tmpblock = = .(info_block+4) OR tr$m_eightbit;
1432
                                       Saiow (chan = .chan,
                                               fu c = io$_setmode,
1434
                                               p1 = tmpblock):
1435
                1526
1527
                                   END:
1436
                              If .status NEQ ss$_timeout
                1528
1529
1530
1531
1437
                              THEN
1438
                                   Begin
1439
1440
                1532
1533
1441
                            At this point, we -c least have something. IOSB[3] will contain the actual
1442
                            number of characturs returned as part of the escape sequence. Now, in some
                1534
1443
                            instances (VT1XX and VT2XX families of terminals) the sequence of interest
                1535
1444
                            ends with a semicolon, followed by all manner of other stuff that should be
                1536
1445
                            meaningful, but isn't. So the search stops at the semicolon. But, VT52's
1446
                1537
                            and other terminals end in a different way, with no semicolon, and/or no
1447
                1538
                            other trailing garbage. In those cases, the total length of good stuff is the length found in IOSB[4]. Also, some sequences end with "c" and no semicolon. Change that "c" to a "i". Finally (for now) in some cases we
                            other trailing garbage.
1448
                1539
1449
                1540
                                                        ''c'' to 🥕
                            semicolon. Change that
                                                                        finally (for now), in some cases when
1450
                1541
                            a user is typing while the QIO
                                                                  r rformed, garbage comes in before the
                1542
1543
1451
                            valid escape sequence. IOSB[1
                                                                     ne offset into the response buffer that
1452
1453
1454
                            will get us to the beginning o
                                                                     Pscape sequence, and IDSB[3] tells how
                1544
                            long the escape sequence is.
                1545
1455
                1546
1456
1457
                1547
                           So, first get to where the "real" response sequence starts
                1548
                1549
1550
1458
                                   sequence = resp_buffer[.iosb[1]+1];
1459
                1551
1552
1553
1554
1555
1556
1460
                            Look for a semicolon. If no semicolon, the IOSB[3] is the length of
1461
                            the string. Make one further check, changing the 'c' at the end (if there
1462
                            is one) to a ':
1463
1464
                                   ptr = CH$FIND_CH(.iosb[3] ~ 1, .sequence, ';');
1465
                                   IF CHSFAIL(.ptr)
1466
                                   THEN
                1558
1467
                                       BEGIN
                1559
1468
                                       resp_len = .josb[3] - 1;
                1560
1469
                                       IF .sequence[.resp_len - 1] EQL 'c'
                1561
1470
                                       THEN sequence[.resp_len - 1] = ';';
                1562
1471
1472
                1564
                            If the semicolon is found, calculate the response string length.
1474
                1565
```

```
1566
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                    1578
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                    1580
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                    1619
                    1620
                    1621
```

```
ELSE resp_len = .ptr - .sequence + 1:
Now loop thru all the terminal types, to see if any of them have the same
response string as what we found.
         INCR i FROM 0 TO (terms_num -1) DO
                                                                                   ! Go thru each term block
                BEGIN
                IF .term$_table[.i, term$l_rspnum] NEQ 0
                                                                                    ! If a response block exists
                THEN
                                                                                    ! then go thru all the responses
                      BEGIN
                      BIND resp_block = .term$_table[.i, term$l_rspblk] : VECTOR; INCR_i_FROM O TO (.term$_table[.i, term$l_rspnum] - 1) DO
                            BEGIN
                            BIND response = .resp_block[.j] : VECTOR; IF CH$EQL(.response[0], .response[1],
                                            .resp_len,
                                                                   .sequence)
                            THEN (index = .i; EXITLOOP);
                            END:
                      IF .index NEQ -1
                      THEN EXITLOOP;
                      END:
                END:
If still no match, then return saying that the terminal type is unknown.
         If .index NEQ -1
         THEN
               BEGIN
A VT100J looks almost like a VK100, except that the character after the ";" is a 2. If that's what we have, then set it up that way.
               If .index EQL term$_vk100
AND .sequence[.resp_len] EQL '2'
                THEN index = term$_vt100;
In the VT1xx family of terminals, the presence of the advanced video is based on the character AFTER the ";". If this character, translated to a "real" number, has bit 1 set (i.e. 2,3,6,7) then the terminal has
the advanced video option.
               IF .index EQL term$_vt100
OR .index EQL term$_vt101
OR .index EQL term$_vt102
OR .index EQL term$_vt105
OR .index EQL term$_vt125
OR .index EQL term$_vt131
OR .index EQL term$_vt131
                OR .index EQL term$_vt173
                AND
                     BEGIN
```

LOCAL char : BYTE;

char = .sequence[.resp\_len] - '0';

Page

\$ ! 5 !

[2] = tt2\$m\_regis,

[3] = tt2\$m\_sixel,

[4] = 0.

[5] = 0

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(8)

flags[set\$v\_vt200] = 1;
END;

The pro terminal has the terminal characteristic, regis, set if
the extended bit option in the response string is set ( first b

the extended bit option in the response string is set (first byte after the actual response sequence). Otherwise the characteristic is turned off.

If (.index EQL term\$\_pro\_series)

THEN

BEGIN

tt2\_set = .tt2\_set or tt2\$m\_avo;

If .sequence[.resp\_len] EQL '1'

THEN

tt2\_set = .tt2\_set or tt2\$m\_regis

ELSE

tt2\_clr = .tt2\_clr or tt2\$m\_regis;

END;

END:

If the number 3 is present in the response then regis is set for the vt102 ( the rainbow terminal can have regis)

```
13
SETTERM
VC4-000
                                                                           16-Sep-1984 01:10:06
14-Sep-1984 12:09:20
                                                                                                       VAX-11 Bliss-32 V4.0-742
                                                                                                                                                 Page 48
                                                                                                       [CLIUTL.SRC]SETTERM.B32:1
                                                                                                                                                       (8)
                   1680
                  1681
1683
1683
1685
1686
1687
  1590
                                      If .index EQL term$_vt102
  1591
                                      THEN
                                          BEGIN
  1593
                         6
                                          local str: vector[2,byte];
str = ';3';
  1594
                          6
  1595
                          6
                                          ptr = ch$find_sub( .iosb[3]-1, .sequence, 2, str );
  1596
                          6
                                          If Not ch$fail(.ptr)
  1597
                   1688
                          6
                                          THEN
  1598
                   1689
                                               tt2_set = .tt2_set or tt2$m_regis ;
                   1690
  1599
                                          END:
                   1691
  1600
                                      return 1;
                   1692
  1601
                                     END:
  1602
1603
                                 END:
                   1694
                            END:
  1604
                   1695
  1605
                   1696
                              If we went thru all the request sequences and nothing was found, then
                   1697
  1606
                              signal saying that the terminal type is unknown, and return.
                   1698
  1607
                   1699
                            tmpblock = .info_block;
tmpblock+4 = .(info_block+4);
  1608
                   1700
  1609
                P 1701
  1610
                            Saiow (chan = .chan,
                P 1702
1703
  1611
                                func = io$_setmode,
  1612
                                p1 = tmpblock);
                   1704
  1613
                            SIGNAL (set writeerr AND NOT sts m severity OR sts k warning,
  1614
                   1705
                                    1, dēv_desc,
  1615
                   1706
                                    set$_unkterm);
                   1707
  1616
                            RETURN O:
                  1708
                         T END;
 1617
                                                                                       .PSECT $PLIT$, NOWRT, NOEXE, 2
                                                           00000000# 001CC P.ABY:
                                                                                       .LONG
                                                                                                0[20]
0000000
           00000000
                       00100000
                                   02000000
                                               00400000
                                                          0000000
                                                                      0021C P.ABZ:
                                                                                                0. 4194304, 33554432, 1048576, 0, 0, -
                                                                                       .LONG
                                                                                                2097152, 0
                                               00000000
                                                          00200000
                                                                      00234
                                                                                       .PSECT $CODE$, NOWRT, 2
                                                                OFFC 00000 INQUIRE_TYPE:
                                                                                                Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 -168(SP), SP
                                                                                       .WORD
                                                                                                                                                     1452
                                                      FF58
                                                                                       MOVAB
                                                              CE
                                                                                                DATA_BUFFER, R6
8(R6), R8
40(R6), 12(SP)
52(R6), R9
                                              56
58
                                                              AC
                                                                  DŌ
                                                                      00007
                                                                                                                                                      1474
                                                                                       MOVL
                                                        08
                                                                      0000B
                                                              A6
                                                                                       MOVAB
                                             AE
59
                                                        28
34
                                        00
                                                                   9Ē
                                                                      0000F
                                                              A6
                                                                                      MOVAB
                                                                   9E
                                                                      00014
                                                                                       MOVAB
                                                              A6
                       58
                                     0000
                                                                   28
                             AE
                                              CF
                                                      0050
                                                              8F
                                                                      00018
                                                                                                #80, P.ABY, RESP_BUFFER
                                                                                       MOVC3
                                                                                                                                                      1485
                                        80
                                              AE
                                                              01
                                                                      00021
                                                                                                #1
29$
                                                                                                                                                     1496
                                                                                       MNEGL
                                                                   31
                                                            0240
                                                                      00025
                                                                                       BRW
                                                        80
                                                                   D0
                                                                      00028 15:
                                                                                       MOVL
                                                                                                                                                     1498
                                                              AE
                                              50 00000000G0041
                                                                   D0
                                                                      0002C
                                                                                       MOVL
                                                                                                ŤĚŖM$_REQBLK[R1], RO
                                                                  DD 00034
                                                                                                                                                     1506
                                                              60
                                                                                       PUSHL
                                                                                                (RO)
                                                                  DD 00036
                                                        04
                                                                                       PUSHL
                                                              A0
                                                                                                4(R0)
                                              7E
                                                              04
                                                                   7D 00039
                                                                                       PVOM
                                                                                                \#4, -(SP)
```

						1	J 13 6-Sep- 4-Sep-	-1984 01:10 -1984 12:09	: 06 : 20	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETTERM.B32:1	Page 49
			7£	50 60	8F 9/ AE 9/ 7E 7/	0003c	·	MOVZBL PUSHAB CLRQ	#80,		
			7E 7E	70 48F7 38	AE 91 8F 31 A6 31	00045 00048 00040		PUSHAB MOVZWL MOVZWL	IOSB #1867 56(R6	9, -(SP) ), -(SP)	
		00000000G 04 04 0000022C	00 AE 09 AE 16 8f	04 50 04	7E D4 0C FE 50 D6 AE AE AE D6 0C 13	00053 0005A 0005E 00062 00067		CLRL CALLS MOVL BLBC MOVZWL BLBS CMPL	RO, S STATU IOSB, STATU STATU	SYS\$010W	1507 1508 1509 1510
			<b>3</b> C		AE D' 06 13	00075 00079		BEQL (MPL Beql	<b>3\$</b>	S, #60	1511
			01	04 08	AE D	0007E	<b>3\$</b> :	PUSHL BRW CMPL	STATU 30\$ I, #1	S	; 1516 ; 1514 ; 1519
48	50 AE	44 00	AE AE 60	00 00080000	2E 17 BE 00 04 C1 8F C9 7E 70 7E 70	00087 00080 00091 0009A		BNEQ MOVL ADDL3 BISL3 CLRQ CLRQ	4\$ a12(S #4, 1 #3276 -(SP) -(SP)	P), TMPBLOCK 2(\$P), RO 8, (RÓ), TMPBLOCK+4	1521 1522 1525
			7E 7E	58 38	7E D4 AE 91 7E 70 23 70 A6 30	0009E 000A0 000A3 000A5 000A8		CLRL PUSHAB CLRQ MOVQ MOVZWL	-(SP) TMPBL -(SP) #35,		
		00000000G 0000022C	00 8F	04	7E D4 OC FE AE D1 03 12	000AC 000AE 000B5	45:	CLRL CALLS CMPL BNEQ	-(SP) #12,	SYS <b>\$</b> QIOW S, <b>#</b> 556	1527
		10	50 57 57 AE	59 52 56 10	AE 30 AE 30 AE 30 AE 30 AE 37	00002 00006 0000A 0000D	5\$:	BRW MOVAB MOVZWL ADDL2 MOVZWL DECL	29 <b>\$</b> RESP	BUFFER+1, RO 2, SEQUENCE EQUENCE 6, 16(SP)	1 <b>549</b> 1555
	67	10	AE 6E		3B 3/ 02 12 51 04 51 00	000D5 000DA 000DC	48.	LOCC BNEQ CLRL	#59, 6 <b>\$</b> R1	16(SP), (SEQUENCE)	
		63 FF A	5B 8F	10 FF AE	13 12 AE DO 347 91 OF 12 38 90	000E1 000E3 000E7	03:	MOVL BNEQ MOVL CMPB BNEQ MOVB	-1 (RE:	'N ), RESP_LEN SP_LEN)[SEQUENCE], #99 -1(RESP_LEN)[SEQUENCE]	1556 1559 1560
	51	,, ,	6E 5B 54	01	08 11 57 C3 A1 96	000F4 000F6 000FA		BRB SUBL 3 MOVAB MNEGL	85 SEQUEI 1(R1) #1, I	NCE, PTR, R1 , RESP_LEN	1556 1566 1572
	50		54 5A	00000000000	10 05 040 9f	000FE 00101 00103 00107 0010E	9\$:	BRB MULL3 PUSHAB MOVL	13\$ #28, TERM\$	I, RO   TABLE+20[RO]   F, R10	1574

ERM -000								•	K 13 16-56 14-56	3 pp-1984 01:10 pp-1984 12:09	):06 ):20	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETTERM.B32;1	Page 50 (8)
				14	AE 55	00000000G0040 9E 01	1: 9: 0: C:	0011/ 00118	<u>\</u>	BEQL PUSHAB Movl Mnegl	<b>a</b> (SP)? <b>#1</b> , J	TABLE+24[RO] F, 20(SP)	1577 1582
	5B		00	04	50 B0	13 14 BE45 60 67	1° 00 21	00123 00123 00128 00128	101	BRB MOVL CMPC5	11 <b>\$</b> a20(SF (RO),	P)[J], RO a4(RO), #O, RESP_LEN, (SEQUENCE)	1580 1581
					69	05 54 04	1; Di	00131		BNEQ Movl Brb	11\$ I (R9 12\$		1583
			E9	FFFFFFF	55 8F	5A 69 08	F	2 00136	111	: AOBLSS : CMPL	R10, (R9), 14\$	)	1578 1585
			88	FFFFFFF	54 8f	00000000G 8f 69 03	F D	0014 0014 0015	131	S: CMPL BNEQ	#TERMS (R9), 15\$	B_NUM-1, I, 9\$ P-1	1572 1593
				0000000G	8F	0111 69	3° 0°	00157	151	BRW 6: CMPL BNEQ	29 <b>\$</b> (R9), 16 <b>\$</b>	#TERM\$_VK100	1601
					32	0D 6B47 07	9	00160	5	CMPB BNEQ	(RESP.	LEN)[SEQUENCE], #50	1602
				0000000G	69 8F	00000000 8F	D.	) 00160 1 00160	161	MOVL CMPL	#TERMS	JV1100, (R9) #TERMS_VT100	: 1603 : 1611
				0000000G	8F	65 69	1 ) D	00176	5	BEQL CMPL	18 <b>\$</b> (R9),	#TERMS_VT101	; 1612
				00000000	8F	5C 69 53	1 D	1 00171	•	BEQL CMPL	18\$ (R9),	#TERMS_VT102	1613
				0000000G	8F	69	1 D	00188	3	BEQL CMPL	18\$ (R9),	#TERM\$_VT105	1614
				0000000G	8F	4A 69	1	00191		BEQL CMPL	18\$ (R9),	#TERM\$_VT125	1615
				0000000G	8F	41 69	1	0019	1	BEQL CMPL	18\$ (R9),	#TERM\$_VT131	1616
				0000000G	8F	38 69	D	001A	<b>,</b>	BEQL CMPL	18 <b>\$</b> (R9),	#TERM\$_VT132	1617
				0000000G	8f	2f 69 2C	D	001A1 001A3 001A4 001A6 001B3	<u>.</u>	BEQL CMPL BNGO	(R9),	#TERM\$_VT173	1618
18	AE 67	10	50 10 18 AE	18	50 00 AE	30 01 0031313B 8F 03	E (	00187 00187 00188		BNEQ SUBB3 BBS INSV MATCHC	#48, (H #1, CH #32238 #3, CH	(RESP_LEN)[SEQUENCE], CHAR HAR, T8\$ 367, #0, #24, CHAR HAR, 16(SP), (SEQUENCE)	1622 1623 1628 1629
					53	03	1	001CF 001D1	, 	MUVL	#3, K3	3	; ;
					6E	53 73	- 31	00104	1/1	MOVAW	R3 -(R3),		;
				03	<b>8</b> A	06 08 04	1. 8	3 001DE	3 181	BNEQ BISB2	19 <b>\$</b> #8, 30	(R8)	: 1630 : 1633
				00000000G	<b>A6</b> 8F	04 08 69 35 20 08 01	1 8 0	3 001E1	191	i: (MPI	(R9)	S(R6) #TERM\$_VT200_SERIES	1634 1635
		24	AE	0000° 03	CF A8	ŽÓ 80	2	3 001E	5	MOVC3 BISB2	#32, F	P.ABZ, OPT200 (R8)	1647 1648
				10	54 AE	01 38	9(	001E 001E 001F 001F 001F	211	MOVL 6: MOVB	#8, 30 #1, X #59, S		: 1649 : 1652

SETTERM 16-Sep-1984 01:10:06 VAX-11 Bliss-32 V4.0-742 V04-000 14-Sep-1984 12:09:20 [CLIUTL.SRC]SETTERM.B32;1	Page 51 (8)
1D AE 54 30 81 00200 ADDB3 #48, X, STR+1 67 10 AE 1C AE 02 39 00205 MATCHC #2, STR, 16(SP), (SEQUENCE) 03 13 0020C BEQL 22\$ 53 02 D0 0020E MOVL #2, R3 6E 73 3E 00211 22\$: MOVAW -(R3), PTR	; 1653 ; 1654
6F /5 SF UUZII ZZX: MUVAW -(R5), PIR	
	: 1655 : 1657 : 1649
68 20 AE44 (8 00216 BISL2 OPT200-4[X], (R8) DD 54 08 F3 0021B 23\$: AOBLEQ #8, X, 21\$ 1D A6 20 88 0021F BISB2 #32, 29(R6) 00000000G 8F 69 D1 00223 24\$: CMPL (R9), #TERM\$_PRO_SERIES 14 12 0022A BNEQ 26\$	1649 1659 1667
05 A8 08 88 0022C BISB2 #8, 3(R8)	: 1670 : 1671
06 12 00234 BNEQ 25\$ 03 A8 02 88 00236 BISB2 #2, 3(R8) 04 11 0023A BRB 26\$	1673
06 12 00234 BNEQ 25\$  03 A8 02 88 00236 BISB2 #2, 3(R8)  04 11 0023A BRB 26\$  05 A6 02 88 0023C 25\$: BISB2 #2, 15(R6)  00000000G 8F 69 D1 00240 26\$: CMPL (R9), #TERM\$_VT102	1675 1681
31 6847 91 00230 CMPB (RESP_LEN)[SEQUENCE], #49 06 12 00234 BNEQ 25\$ 03 A8 02 88 00236 BISB2 #2, 3(R8) 04 11 0023A BRB 26\$ 06 02 88 0023C 25\$: BISB2 #2, 15(R6) 00000000G 8F 69 D1 00240 26\$: CMPL (R9), #TERM\$_VT102 18 12 00247 BNEQ 28\$ 20 AE 333B 8F B0 00249 MOVW #13115, STR 67 10 AE 20 AE 02 39 0024F MATCHC #2, STR, 16(SP), (SEQUENCE) 03 13 00256 BEQL 27\$	: 1685 : 1686
53 02 D0 00258 MOVL #2, R3 66 73 36 00258 27%: MOVAU +(R3) PTR	
04 13 0025E BEQL 28\$ 03 A8 02 88 00260 BISB2 #2, 3(R8) 50 01 D0 00264 28\$: MOVL #1, R0 04 00267 RET	; 1687 ; 1689 ; 1691
04 00267 RET  FDB5 08 AE 01 00000000G 8F F1 00268 298: ACBL #TERMS_REQNUM-1, #1, I, 18	1496
44 AE OC BE DO 00273 MOVL @12(SP), TMPBLOCK 50 OC AE 04 C1 00278 ADDL3 #4, 12(SP), RO 48 AE 60 DO 0027D MOVL (RO), TMPBLOCK+4	: 1699 : 1700
7E 7C 00281 CLRQ -(SP) 7E 7C 00283 CLRQ -(SP)	1703
1 DE RE YF UUZBF PUSHAB IMPBLULK	
7E 23 7D 0028C MOVQ #35, -(SP) 7E 38 A6 3C 0028F MOVZWL 56(R6), -(SP)	
00000000G 00	1704
20 A6 9F 002A2 30\$: PUSHAB 32(R6) 01 DD 002A5 PUSHL #1 00000000* 8F DD 002A7 PUSHL # <set\$_writeerr&-8></set\$_writeerr&-8>	:
00000000G 00 04 FB 002AD CALLS #4, LIB\$SIGNAL 50 D4 002B4 CLRL RO 04 002B6 RET	1708

; Routine Size: 695 bytes. Routine Base: \$CODE\$ + 0A82

```
1619
                        ROUTINE get_term_def (data_buffer) =
                1710
1620
                        BEGIN
1621
                1711
1622
                1712
                           functional description
1624
1625
                1715
                                  This routine searches TERMTABLE.EXE for a terminal definition.
1626
1627
                                  We look in TERMTABLE only if we don't recognize the terminal
                                  name.
1628
1629
1630
                1719
                                  This routine will extract various information about the terminal
                1720
                                  from its definition. This information is stored in INFO_BLOCK.
1631
                1722
1723
1724
1725
1726
1727
1632
1633
                                  Inputs
                                        DATA_BUFFER - contains all meaningful data
1634
1635
                                 Outputs
                                        fills in various fields in INFO_BLOCK
1636
1637
               1728
1729
1638
1639
                        MAP
                1730
1640
                             data_buffer : REF VECTOR;
               1731
1732
1641
                        MACRO
1642
1643
                1733
1644
               1734
                             $first_item(a,b,c,d) =
               1735
1645
               1736
1646
               1737
1647
                             X.
1648
                1738
                1739
1649
                             $cap_init[capability,action,characteristic,longword_number] =
               1740
1650
               1741
1651
               1742
1652
                                 XNAME(smg$k_,capability)
1653
                1744
                             X.
1654
               1745
1655
               1746
1656
                             $set_init[capability,action,characteristic,longword_number] =
               1747
1657
               1748
                                 $first_item( %NAME(term$l_set,longword_number) )
1658
               1749
1659
                1750
                             I.
1660
                1751
1661
               1752
1753
                             $val_init[capability,action,characteristic,longword_number] =
1662
1663
               1754
1755
                                 XIF XIDENTICAL(action, set)
1664
                                 XTHEN 1
1665
             M 1756
M 1757
                                 XELSE O
1666
                                  XF I
1667
             M 1758
1668
                1759
                             X.
1669
1670
                1760
             M 1761
1671
                             $msk_init[capability,action,characteristic,longword_number] =
             M 1762
M 1763
1672
1673
                                  INAME ( tt.
             M 1764
M 1765
1674
1675
                                          XIF XIDENTICAL (longword_number, 2) XTHEN 2 XFI,
```

1678

1679

1680

1681

1682 1683

1684 1685

1686 1687

1688

1689

1690

1691

1692 1693

1694

1695

1696

1697

1698

1699

1700

1701

1702 1703

1704

1705

1706

1707

1708

1709

1710

1711

1712

1713 1714

1715

1716

1717

1718

1719

1720

1721 1722 1723

1731 1732

M 1779

M 1780

M 1781

M 1782

M 1783 1784

1785

1786

1787

1788

1789 1790

1791

M 1792 M 1793

M 1794 M 1795

M 1796 M 1797

M

1798

1799

1800

1801

1802 1803

M 1804

M 1805

M 1806

M 1807

1808

1809

1810

1811

1812 1813

1814 1815

1816 1817

```
M 1766
M 1767
                                                          $m_.characteristic)
M 1768
    1769
1770
                               X,
1770
M 1771
M 1772
M 1773
M 1774
M 1775
M 1776
M 1777
M 1778
                               $bits[] =
```

```
LITERAL
       cap_size = %LENGTH/4;
OUN
      cap_vector : VECTOR[cap_size] INITIAL( $cap_init(%REMAINING) ),
set_vector : VECTOR[cap_size] INITIAL( $set_init(%REMAINING) ),
val_vector : VECTOR[cap_size] INITIAL( $val_init(%REMAINING) ),
msk_vector : VECTOR[cap_size] INITIAL( $msk_init(%REMAINING) );
X,
   We need to call SMG$GET_TERM_DATA several times.
   The code will look neater if we use a macro.
$get_term_data(request_code) =
```

N 13

```
status = smg$get_term_data( term_table_addr,
                             %ref(request_code),
                             %ref(4);
                             ret_length,
                             ret_buffer);
IF NOT .status
THEN
    BEGIN
    1, dev_desc, .status);
RETURN 0;
    SIGNAL(set$_writeerr AND NOT sts$m_severity OR sts$k_warning,
    END:
END
```

Bind data to meaningful names

term\_table\_addr,

ret\_length,

hind\_data; LOCAL crfill. lffill, frame, status,

X:

B 14 16-Sep-1984 01:10:06 14-Sep-1984 12:09:20

VAX-11 Biss-32 V4.0-742 [CLIUTL.SR(]SETTERM.B32;1

Page 54 (y)

; 1733 1823 2 ret\_buffer;

•

-

SETTERM V04-000 : 1735 : 1736 : 1737 : 1738 : 1739 : 1740	1824 1825 1826 1827 1828 P 1829 P 1830	<pre>2 ! This table describ 2 : capability names a 2 ! for example, the A 2 ! bit in the 2nd ter 2 \$BITS(</pre>	es the correspon rd terminal char DVANCED VIDEO ca minal characteri	C 14 16-Sep-1984 01:10:06 14-Sep-1984 12:09:20  dence between TERMTABLE acteristics. pability causes the AVO stics longword to get set	VAX-11 Bliss-32 v4.0-742 [CLIUTL.SRC]SETTERM.B32;1
1741 1742 1743 1744 1745 1746 1747 1748 1749 1750 1751 1752 1753 1754 1755	P 1830 P 1831 P 18334 P 18336 P 18337 P 18339 P 1844 P 1844 P 1844 P 1845 P 1846	L Capability  ADVANCED_VIDEO, ANSI_CRT, BLOCK_MODE, DEC_CRT, EDIT, PHYSICAL_FF, FULLDUP, LOWERCASE, REGIS, SCOPE, SIXEL_GRAPHICS, PHYSICAL_TABS,	! Action SET. SET. SET. SET. SET. SET. SET. SET.	! Characteristic  AVO ANSICRT, BLOCK, DECCRT, EDIT EIGHTBIT, MECHFORM, HALFDUP, LOWER, REGIS, SCOPE, SIXEL, DRCS, MECHTAB,	! Longword #  2, 2, 2, 1, 1, 1, 1, 1, 2, 1, 2, 1);

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D 14

```
1760
               1848
                                On-:he-fly activate the SMG package
1761
               1849
1762
1763
               1850
                       1851
               1852
1853
1764
1765
1766
               1854
1767
               1855
1768
               1856
1769
               1857
1770
               1858
1771
               1859
                         See if this terminal is defined in TERMTABLE.EXE.
1772
               1860
               1861
               1862
1863
1774
                       If NOT (smg$init_term_table(name_desc, term_table_addr))
1775
                       THEN
1776
               1864
                                                         ! error - not defined terminal
1777
               1865
                            SI IAL(set$_writeerr AND NOT sts$m_severity OR sts$k_warning,
1778
               1866
                                   1, dev_desc.
                                   set$_invquaval,
2, name_desc, SD_DEVICE_TYPE);
1779
               1867
1780
               1868
1781
               1869
                            RETURN O.
1782
               1870
                            END:
1783
               1871
               1872
1873
1784
1785
                         found this terminal name in the definition file.
1786
               1874
                         Now get the 'foreign' terminal number assigned to it.
               1875
1787
1788
               1876
               1877
1789
                       $get_term_data(smg$k_vms_terminal_number);
1790
               1878
1791
               1879
1792
               1880
                         Store the terminal number
1793
               1881
1794
               1882
1795
               1883
                       index = .ret_buffer:
                                                         ! use this in log_results
 796
               1884
                       info_block[term$b_type] = .ret_buffer<0,8>;
1797
               1885
                                                         ! use this in QIOWs
1798
               1886
1799
               1887
1800
               1888
                         Next get the width and page size of the screen.
1801
               1889
1802
               1890
1803
               1891
                       $get_term_data(smg$k_columns);
               1892
1893
1804
1805
1806
               1894
                         Save the width. Note that this is optional information in
1807
               1895
                         a terminal definition so we may not have received anything
1808
               1896
                         in our buffer.
1809
               1897
1810
               1898
1811
               1899
                       If .ret_length NEQ 0
1812
1813
               1900
                       THEN
               1901
                            BEGIN
               1902
1814
                            IF .ret_buffer GTRU 511
1815
```

```
E 14
16-Sep-1984 01:10:06
14-Sep-1984 12:09:20
BEGIN
LOCAL desc : VECTOR[2],
buf : VECTOR[64,BYTE];
desc[0]=64;
desc[1]=buf:
```

```
desc[1]=buf;
$fao(%ASCID '!UL',desc,desc,.ret_buffer);
SIGNAL(set$_invquaval, 2, desc, $D_WIDTH);
RETURN 0
END;
info_block[term$w_width] = .ret_buffer<0,16>;
END;
```

```
$ $get_term_data(smg$k_rows);
```

```
Save the page size.
```

IF .ret\_length NEQ 0

```
BEGIN
IF .ret_buffer GTRU 255
THEN

BEGIN
LOCAL desc : VECTOR[2],
buf : VECTOR[64,BYTE];
desc[0]=64;
desc[1]=buf;
$fao(%ASCID '!UL',desc,desc,.ret_buffer);
SIGNAL(set$_invquaval, 2, desc, $D_PAGE);
RETURN 0
```

```
END;
info_block[term$b_page] = .ret_buffer <0.8>;
END;
```

```
Get the fill characteristics.
```

```
$get_term_data(smg$k_cr_fill);
```

Save the carriage return fill count.

```
IF .ret_length EQL 0
THEN
    crfill=0
```

```
BEGIN
BIND set1 = info_block[term$l_set1] : $bblock;
If .ret_buffer GTRU 9
THEN
```

```
BEGIN
LOCAL desc : VECTOR[2],
buf : VECTOR[64,BYTE];
desc[0]=64;
```

BEGIN

VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETTERM.B32:1

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Page 59 (11)

```
H 14
SETTERM
                                                                     16-Sep-1984 01:10:06
                                                                                               VAX-11 Bliss-32 V4.0-742
                                                                                                                                      Page 60
V04-000
                                                                     14-Sep-1984 12:09:20
                                                                                               [CLIUTL.SRC]SETTERM.B32:1
                                                                                                                                          (11)
  1988
  1989
                            Done with this terminal definition. Get
                 2078
2079
2080
2081
  1990
                           rid of the virtual memory used to hold TERMTABLE.EXE.
 1991
  1992
  1993
                          smg$del_term_table(); ! don't care about return status
                 2082
  1994
  1995
                          RETURN 1:
                        1 END:
                                                            ! end of routine get term def
                                                                                .PSECT $PLIT$, NOWRT, NOEXE, 2
54 5F 4D 52 45 54 5F 54 49 4E 49 24 47 4D 53 0023C P.ACB: .ASCII \SMG$INIT_TERM_TABLE\<0>
00 45 4C 42 41 0024B
                                                      010E0013
                                                                                .LONG 17694739
                                                                 00250 P.ACA:
                                                   000000000 00254
47 4D 53 00258 P.ACD:
45 4C 42 00267
010E0012 0026C P.ACC:
                                                                                .ADDRESS P.ACB
41 54 5F 4D 52 45 54 5F 4C 45
                                                                                .ASCII \SMG$DEL_TERM_TABLE\<0><0>
                                           00
                                               ŌÓ
                                                                0026C P.ACC:
00270
00274 P.ACF:
                                                                                .LONG 17694738
.ADDRESS P.ACD
                                                      00000000
                                                    47 4D 53 00 41 54
                                               24
00
41 44
        5F 4D 52 45 54 5F 54 45
                                           47
                                                                                .ASCII \SMG$GET_TERM_DATA\<0><0><0>
                                                                00283
00288 P.ACE:
0028C
00290 P.ACH:
                                           00
                                                      010E0011
                                                                                .LONG 17694737
                                                      00000000
                                                                                .ADDRESS P.ACF
                                               00 40 55 21
                                                                                .ASCII \!UL\<0>
                                                      010E0003
                                                                 00294 P.ACG:
                                                                                .LONG
                                                                                       17694723
                                                                00298
0029C P.ACJ:
002AO P.ACI:
                                                      00000000
                                                                                .ADDRESS P.ACH
                                               00 40 55 21
                                                                                .ASCII \!UL\<0>
                                                      010E0003
                                                                                        17694723
                                                                                .LONG
                                                      00000000
                                                                 002A4
                                                                                .ADDRESS P.ACJ
                                                                 002A8 P.ACL:
                                               00 40 55 21
                                                                                .ASCII \!UL\<0>
                                                      010E0003
                                                                 002AC P.ACK:
                                                                                        17694723
                                                                                .LONG
                                                                                ADDRESS P.ACL
                                                      00000000.
                                                                 002B0
                                                                                .ASCII \!UL\<0>
                                               00 40 55 21
                                                                 002B4 P.ACN:
                                                      010E0003
                                                                 002B8 P.ACM:
                                                                                .LONG
                                                                                        17694723
                                                      00000000
                                                                                .ADDRESS P.ACN
                                                                002BC
                                               00 40 55 21
                                                                 002CO P.ACP:
                                                                                .ASCII \!UL\<0>.LONG 17694723
                                                      010E0003
                                                                002C4 P.ACO:
                                                      00000000
                                                                00208
                                                                                .ADDRESS P.ACP
                                                                                .PSECT SOWNS, NOEXE, 2
80000008
          0000007
                     00000006
                                00000005
                                           00000002
                                                      00000001
                                                                 0000C CAP_VECTOR:
                                                                                        1, 2, 5, 6, ?, 8, 22, 9, 12, 17, 18, 19, -
                                                                                .LONG
00000013
          00000012
                     00000011
                                           0000009
                                                      00000016
                                0000000C
                                                                 00024
                                           00000015
                                                      00000014
                                                                 00030
          80000008
00000004
                     80000008
                                8000000
                                           00000008
                                                      80000008
                                                                 00044 SET_VECTOR:
                                                                                .LONG
                                                                                        8, 8, 8, 8, 8, 4, 4, 4, 4, 8, 4, 8, 8, 4
8000000
          0000004
                     80000008
                                00000004
                                           00000004
                                                      00000004
                                                                 0005C
                                           00000004
                                                      80000000
                                                                 00074
00000001
          00000001
                     00000001
                                00000001
                                           0000001
                                                      00000001
                                                                 0007C VAL_VECTOR:
                                                                                .LONG
                                                                                        1, 1, 1, 1, 1, 1, 1, 0, 1, 1, 1, 1, 1
00000001
          00000001
                     00000001
                                00000001
                                           00000000
                                                      00000001
                                           00000001
                                                      00000001
                                                                 000AC
```

SETTERM V04-000 00008000 00100000	10000000	20000000	04000000 00000080	00	100000	080000 000800 002000	00		I 14 6-Sep-1984 01:10 4-Sep-1984 12:09 MSK_VECTOR: .LONG .EXTRN .PSECT	:06	61 (11)
		0	F 8 0000000G OC OC	5A (65	00000000000000000000000000000000000000	00FFEC44988398839883E420842F61	999999999999999999999999999999999999999	29051AE26AD13369DF248AD037AE139BD3AD037AF255CF4 000000000000000000000000000000000000	GET_TERM_DEF: .WORD MOVAB MOVAB MOVAB MOVAB MOVAB MOVAB MOVAB MOVAB PUSHAB	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 LiB\$FIND_IMAGE_SYMBOL, R11 SYS\$FAO,R10 \$SMGSGET_TERM_DATA, R9 SD_SMGSHR, R8 -92(SP), SP DATA_BUFFER, R4 32(R2), R6 40(R4), R3 \$SMG\$INIT_TERM_TABLE P.ACA R8 #3, LIB\$FIND_IMAGE_SYMBOL \$SMG\$DEL_TERM_TABLE P.ACE R8 #3, LIB\$FIND_IMAGE_SYMBOL R9 P.ACE R8 #4, TABLE_ADDR #5, TABLE_SIGNAL R5, TABLE_SIGNAL R5, TABLE_SIGNAL R6 R6T_LENGTH #4, T2(SP) T2(	1709  1808  1851  1853  1865  1869  1869  1883  1883  1884  1891

					16	1 14 5-Sep-19 4-Sep-19	984 01:10 984 12:09	:06 VAX-11 Bliss-32 V4.0-742 :20 [CLIUTL.SRC]SETTERM.B32;1	Page (vi)
00	AE	10	AE 04		00AC		PUSHAB MOVL	RET_LENGTH #4, 12(SP)	3
0c	AE	OC DD	04 8F AE AE 05	9F (	00B3		PUSHAB	12(SP)	•
	7.	50 00	AE	9F (	00B6 00BB		MOVZBL PUSHAB	#221, 12(SP) 12(SP)	
00	B9	20	05	9f (	000BE 000C1 000C5		PUSHAB CALLS	TERM TABLE ADDR #5, @\$SMG\$GET_TERM_DATA RO, STATUS STATUS, 6\$ RET_LENGTH	<b>;</b>
	B9 55 5E		50 55 AE	E9 (	)UU(8	2\$:	MOVL BLBC TSTL	RO, STATUS STATUS, 6\$	:
	_	00	3A	13 (	00CB		BEQL	<b>→</b>	1899
000001FF	8F	08	AE 2B	D1 (	0000 8000		CMPL BLEQU	RET_BUFFER, #511	1902
54 58	AE AE	40 14	8F AE AE	9A (	00DA 00DF		MOVZBL MOVAB	#64, DESC BUF, DESC+4	1907 1908
		08 58 50	AĒ AĒ	DD C	00E4		PUSHL PUSHAB	RET_BUFFER DESC	1909
		50 0280	AE AE C8	9F (	00EA 00ED 00F1		PUSHAB	DESC	•
	6A		04	FB C	00F1		PUSHAB CALLS PUSHAB	P.ACG #4, SYS\$FAO	
		4 C 5 8	A8 AE	9F (	00F4 00F7	<b>3\$</b> :	PUCHAB	SD WIDTH DESC	1910
		0077132A	02 8F	DD 0	00FA		PUSHL PUSHL	#2 #7803690	<b>;</b>
02	A3	08	01AD AE	31 0 B0 0	0102 0105 010A	45:	BRW Movw	26\$ RET_BUFFER, 2(R3)	1913
		08 10	AĒ AĒ	9F 0	010D	5\$:	PUSHAB PUSHAB	REI_BUFFER RET_LENGTH	1916
00	AE	OÇ	04 AE	DO 0	0110		MOVL PUSHAB	#4, 12(SP) 12(SP) #226, 12(SP) 12(SP)	
00	AE	£2 00 20	8F	9A 0	0117 011C		MOVZBL PUSHAP	#226, 12(SP)	•
00	В9	žŏ	AE AE 05	9F 0	011F		PUSHAB	TERM TABLE ADDR	•
00	55 52			DO 0	0122 0126 0129	4.0	CALLS MOVL	#5, ā\$SMG\$GET_TERM_DATA RO, STATUS STATUS, 9\$	•
	72	00	50 55 AE 2E AE	D5 0	012C	<b>o</b> ≯:	BLBC TSTL	RET_LENGTH	1922
000000FF	8F	08	ĄĖ	13 0 01 0 18 0	012F 0131		BEQL CMPL	RET_BUFFER, #255	1925
54 58	AE AE	40	1F 8F	1B 0	0131 0139 0138 0140		BLEQU MOVZBL	7 <b>5</b>	1930
58	AE	14 08	8F AE AE	9E 0	0140		MOVAB PUSHL PUSHAB	#64, DESC BUF, DESC+4 RET_BUFFER	; 1931 ; 1932
		08 58 50	AE AE C8	9F 0	0148		PUSHAB PUSHAB	DESC DESC	
	6A	0298	(8) 04	9F 0	014B 014E 0152		PUSHAB CALLS	P.ACI #4, SYS\$FAO	•
	04	<b>3</b> C	8A	Or U	M155		PUSHAB	SD PAGE	1933
07	<b>A3</b>	08	04 9D AE AE 04	11 0 90 0	0158 015A 015F 0162 0165	7\$:	BRB MOVB	RET_BUFFER, 7(R3)	1936
<b>A</b> .		08 10	AE AE	9F 0	0162	<b>5):</b>	PUSHAB PUSHAB	RET_LENGTH	1943
00	AE	00	AE	77 U	V107		MOVL PUSHAB	#4, 12(SP) 12(SP)	;
ОС	AE	DE	8F AE	9A 0	016C		MOVZBL PUSHAB	RET_LENGTH #4, =12(SP) 12(SP) #222, 12(SP) 12(SP)	
		90 00 00	AE	9F 0	0174		PUSHAB	TERM_TABLE_ADDR	•

						K 14 16-Sep- 14-Sep-	1984 01:10 1984 12:09	):06	Page 63 (11)
	00	B9 55 55		05 50	FB 0017 D0 0017 E9 0017	7 B E 9 <b>\$</b> :	CALLS Movl	#5, @\$SMG\$GET_TERM_DATA R0, STATUS STATUS, 13\$	<b>;</b>
		55	ОС	05 55 AE 04 57	D5 0018	1	BLBC TSTL	STATUS, 13\$ RET_LENGTH 10\$	1949
				57	D4 0018	6	BNEQ CLRL BRB	CRFILL 12\$	1951
		09	08	2D AE 1F	11 0018 D1 0018 1B 0018 9A 0019	A 10\$:	CMPL BLEQU	RET_BUFFER, #9	1955
	54 58	AE AE	40 14	8F AE	9E 0019	)	MOVZBL MOVAB	#64, DESC BUF, DESC+4	1960 1961
			08 58 50	AE AE C8	DD 0019	A	PUSHL PUSHAB	DESC	1962
		6A	02 <b>A</b> 4	(8 04	9F 0019 9F 001A 9F 001A FB 001A	0 3 7	PUSHAB PUSHAB	DESC P.ACK	•
		UA.	5 C	A8 56	9F 001A	A D	CALLS PUSHAB BRB	#4, SYS\$FAO SD_CRFILL 15\$	1963
	05	57 A3	08	AE 04	DO 001A 88 001B	f 11\$: 3 7 12\$:	MOVL BISB2	RET RUFFER (RETL)	1966 1967
	0.5		08 10	AE AE	9F 001B 9F 001B	7 12 <b>\$</b> :	PUSHAB PUSHAB	#4, -5(R3)  RET_BUFFER  RET_LENGTH #4, -12(SP)	1970
	0 C	AE AE	0C	04 AE	9F 0016	ย 1	MOVL PUSHAB	12(3P)	<b>;</b>
	OC .	AC.	E0 00 20	8F AE AE	9A 001C 9F 001C 9F 001C	9	MOVZBL PUSHAB PUSHAB	#224, 12(SP) 12(SP) TERM TABLE ADDR	•
	00	B9 55 5E		05 50	PB 001C	3	CALLS MOVL	TERM_TABLE_ADDR #5, @\$SMG\$GET_TERM_DATA RO, STATUS	
		5E	<b>0</b> c	55 AE 04	E9 001D D5 001D 12 001D	6 13 <b>\$</b> :	BLBC TSTL	STÄTUS, 18\$ RET_LENGTH 14\$	1976
				52 2D	04 0010 11 001E	Ł	BNEQ CLRL	LFFILL	1978
		09	08	AE 1f	D1 001F	2 14 <b>s</b> :	BRB CMPL BLEQU	17\$ RET_BUFFER, #9 16\$	1982
	54 58	AE AE	40 14		1B 001E 9A 001E 9E 001E DD 001F 9F 001F	B D	MOVZBL MOVAB	#64, DESC BUF, DESC+4	1987 1988
			14 08 58 50	8F AE AE AE C8	DD 001F	2	PUSHL PUSHAB	RET_BUFFER DESC DESC	1989
		6 <b>A</b>	0280	(8 04	9F 001F	B E	PUSHAB PUSHAB	P.ACM	:
		0.4	60	04 A8 68	9F 0020	2 5 15 <b>\$</b> :	CALLS PUSHAB BRB	#4, SYS\$FAO SD_LFFILL 21\$	1990
	05	52 A3 52 52	80	AE	00 0020 88 0020	7 16 <b>\$</b> : B	MOVL Bisb2	RET_BUFFER, LFFILL #8, 5(R3)	1993 1994
52 18 A4		52 52	0.0	08 08 57	78 0020 C9 0021	F 17 <b>\$</b> :	ASHL BISL3 PUSHAB	#8, R2, R2 CRFILL, R2, 24(R4)	: 2001
	0С	AE	08 10	AE AE AE	9F 001F 9F 001F 9F 001F 9F 0020 11 0020 0020 88 0020 78 0021 9F 0021 9F 0021 9F 0022 9F 0022 9F 0022 9F 0023	<b>D</b>	PUSHAB	RET_BUFFER, LFFILL  #8, 5(R3)  #8, R2, R2  CRFILL, R2, 24(R4)  RET_BUFFER  RET_LENGTH  #4, 12(SP)  12(SP)  #223, 12(SP)  12(SP)  TERM_TABLE_ADDR  #5 ASSMGSGET_TERM_DATA	2007
	00	AE	OC DF	AE 8F	9F 0022	Š	MOVL PUSHAB MOVZBL	12(SP) #223, 12(SP)	
			DF OC 20	ĂE AE	9F 0022	Ã D	MOVZBL PUSHAB PUSHAB	12(SP) TERM_TABLE_ADDR	
	00	B9		05	FB 0023	0	CALLS	#5, @\$SMG\$GET_TERM_DATA	;

ETTERM 04-000							1	L 14 6-Sep- 4-Sep-	1984 01:10 1984 12:09	: 06 : 20	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETTERM.B32;1	Page	64 (11)
				55 60	50 55 0C AE 04	DO E9 D5	00237 00237 00230		MOVL BLBC TSTL BNEQ	RET_I	STATUS US, 25 <b>\$</b> LENGTH		2013
				52 05	52 3E 08 AE 29	04 11 00 13	0023F 00241 00243	19\$:	CLRL BRB MOVL BEQL CMPL	FRAMI 23\$ RET_I 22\$	E Buffer, frame E, #5		2015 2018 2017
				08	05 52 1F	19 01 15	00240 0024E		BLSS CMPL BLEQ	20 <b>5</b>	E, #8		
			54 58	AE AE	40 8F 14 AE 52	9A 9E DD	. 00258		MOVŽBL MOVAB PUSHL	#64.	DESC DESC+4 E		2024 2025
					58 AE 50 AE 0280 C8	9F 9F	0025F		PUSHAB PUSHAB PUSHAB	DESC DESC		•	2026
				6A	30 A8	FB 9F 31	00269	21\$: 22\$: 23\$:	CALLS PUSHAB	P.ACI #4, 1 SD_FI 3\$	SYS <b>\$</b> FAO		2027
14 A4	14	A4 04		50 50	FE85 14 A4 10	9E	00272	225:	BRW MOVAB BISL3	20 (R	4), RO RO, 20(R4) E, NO, N4, 20(R4)	•	2030
14 /4		04		00	52 52 08 AE 10 AE	71	00281	23 <b>\$</b> :	INSV CLRL PUSHAB	INDE	E, WO, W4, 20(R4) X BUFFER LENGTH	;	2031 2039 2046
			<b>O</b> C	AE	04	9f 00	00289		PUSHAB MOVL	#4,	12(SP)	<b>;</b>	
			00	AE	0C AE 04 A942 0C AE	9f 00 9f	00290	)	PUSHAB MOVL PUSHAB	12(SI CAP ) 12(SI	VECTOR[INDEX], 12(SP)	•	
			00	B9 55	20 AE 05	9F FB	00296 00299 00290 00240		PUSHAB Calls	TERM #5,	_TABLE_ADDR B\$SMG\$GET_TERM_DATA		
				55 15	50 55 55	D0 E8	002A0	258.	MOVL BLBS PUSHL	RU.	STATUS JS, 27 <b>\$</b>		
					56 01	00	8A200	£ 7.	PUSHL PUSHL	R6	J3	:	
			0000000G	00	00000000+ 8f 04 34	DD FB	002AC	26\$:	PUSHL Calls	# <sf1< td=""><td>IS WRITEERR&amp;-8&gt;</td><td></td><td></td></sf1<>	IS WRITEERR&-8>		
				50	3C A942 0C AE	D0 D5	002A3 002A6 002A6 0022AA 0022AA 0022B9 0022CCF2 0022CCF2 0022CA	27\$:	BRB Movl Istl	SET_\ RET_L	/ECTOR[INDEX], SET_POSITIONENGTH	:	2048 2060
		51	08	AE 0B	1E 74 A942 51	15 (1 FR	002C5 002C5	•	BEQL ADDL3 BLBS PUSHAB	29\$ VAL_\	/ECTOR[INDEX], RET_BUFFER, R1	:	2068
				9E	6043 00AC C942	9F (8	002CF		BISES	_M2K_1	POSITION)[R3] POSITIONDEX], a(SP)+		2069
				0F	09 6043 00AC (942	11 9F CA	002DA	28\$:	BRB PUSHAB RTCL2	CSET	POSITION)[R3] 7ECTOR[INDEX], a(SP)+ INDEX, 24\$	:	2070
		90	F8	9E 52 B9 50	0D 00	F 3	002F3	295	BICL2 AOBLEQ CALLS	#13, #0,	INDEX. 248 DSSMGSINIT_TERM_TABLE RO	;	2039 2081
				50	01	D0 04	002EB 002EB 002EB 002EF 002F1	700	RET		RO		2083
					50	04	002F1	30\$:	CLRL RET	R0			2084

; Routine Size: 754 bytes, Routine Base: \$CODE\$ + OD39

VAX-11 Bliss-32 V4.0-742

[CLIUTL.SRC]SETTERM.B32:1

```
2085
2086
2087
2088
: 1998
                             ROUTINE log_results (data_buffer) : NOVALUE =
 1999
 2000
                   2002
                               functional description
 2003
  2004
                                        This routine tells the user whatever was set.
 2005
  2006
                                Inputs
 2007
                                       DATA_BUFFER - full of all sorts of meaningful data
  2008
 5003
                                Outputs
 2010
                                        None.
 2012
 2014
                             MAP
 2015
                                  data_buffer : REF VECTOR;
 2016
 2017
                    2104
                             LOCAL
                                  desc : $BBLOCK[dsc$c_s_bln],
 2018
2019
                    2105
                   2106
                                  fao_buffer : VECTOR[8].
 2020
                    2107
                                   fao desc : VECTOR[2]:
 2021
                   2108
 5055
                   2109
 2023
                   2110
                                Bind data_buffer to meaningful names.
 2024
                   2111
 2025
                             bind_data;
 5056
 2027
2028
2029
2030
                   2114
                               Initialize the descriptors
                   2116
                             $init_dyndesc(desc);
                                                                                            Make a dynamic descriptor
 2031
                   2118
                             fao_desc[1] = fao_buffer;
                                                                                          ! Set up the address
 2033
2033
2034
2035
2036
2037
2038
2039
                   2119
                   2120
                               See if a specific terminal type was set.
                             If .index GTR -1
                             THEN
                   2124
2125
                                  BEGIN
                   2126
2127
                                  str$append(desc, .term$ name[.index]);
str$append(desc, SD_COMMA);
 2040
2041
2042
2043
                   2130
2131
 2044
2045
2046
2047
2048
2050
2051
2053
2054
                                If this is an unknown terminal that is defined in
                                TERMTABLE, use the name from the definition.
                   2134
2135
2136
2137
2138
2139
2140
2141
                             if .index LSS -1
THEN
                                  BEGIN
                                  str$append (desc, name_desc);
                                  str$append (desc, SD_COMMA);
                          3
2
1
```

8 15 16-Sep-1984 01:10:06 14-Sep-1984 12:09:20

2065 2066 2067

2068

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2071

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2089 **2090** 

2091

2092

2093

2094

2095

2096

2097 2098

```
Go thru all 4 of the terminal flagwords, to produce a string showing
          everything that was changed.
        INCR i FROM 0 TO term$_ttset_num - 1 DO
            If (.tt1_set AND .term$_ttset_bit[.i]) MEQ 0
            THEN
                BEG!"
                str$append(desc, .term$_ttset_key[.i]);
                ftrSappend(desc, SD_COMMA);
                END:
            END:
        INCR i FROM 4 TO term$_ttclr_num - 1 DO
            If (.tt1_clr AND .term$_ttclr_bit[.;]) NEQ 0
            THEN
                BEGIN
                str$appenu(desc, .term$_ttclr_key[.i]);
                str$appendidesc, SD_COMMA);
END:
            END:
        INCR i FRCM 0 TO term$_tt2set_num - ! DO
            If (.:t2_set AND .term$_tt2set_bic[.i]) NEQ 0
            THEN
                BEGIN
                str§append(desc, .term%_tt2set_key[.i]);
                str$append(dest, SD_COMMA);
                END;
            END:
        INCR i FROM 2 TO term$_tt2clr_num - 1 DO
            If (.tt2_clr AND .term$_tt2clr_bit[.i]) NEQ 0
            THEN
                BEGIN
                str$append(desc, .term$_tt2clr_key[.i]);
                str$append(desc, SD_COMMA);
                END:
            END:
        INCR i FROM O TO term$_ttset_num - 1 DO
            IF (.tt1_clr AND .term$_ttset_bit[.i]) NEQ 0
            THEN
                BEGIN
                str%append(desc, SD_NO);
                strSappend(desc, .term%_ttset_key[.i]);
                strSappend(desc, SD_COMMA);
                END;
            END:
        INCR i FROM 4 TO term$_ttclr_num = 1 DO
```

If (.tt1\_set AND .term\$\_ttclr\_bit[.i]) NEQ 0

```
2111111122345678901234567890123144567890123456789012315567890123153335678901231555678901231566667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5259
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2244
2246
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2249
2251
2253
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                               2168
```

```
THEN
            BEGIN
            str$append(desc, SD_NO);
str$append(desc, .term$ ttclr_key[.i]);
str$append(desc, SD_COMMA);
            END:
        END:
   INCR i FROM 0 TO term$_tt2set_num - 1 DO
        If (.tt2_clr AND .term$_tt2set_bit[.i]) NEQ 0
        THEN
            BESIN
            str$append(desc, SD_NO);
str$append(desc, .term$ tt2set_key[.i]);
str$append(desc, SD_COMMA);
            END:
        ENU:
2 INCR i FROM 2 TO term$_tt2clr_num - 1 DO
        If (.tt2_set AND .term$_tt2clr_bit[.i]) NEQ 0
        THEN
            BEGIN
            str$append(desc, SD_NO);
            str$append(desc, .term$ tt2clr_key[.i]);
str$append(desc, SD_COMMA);
            END;
       END:
Check the special parameters, the ones that
Dec_Crt
If ( tt2$m_deccrt AND .deccrt_set) NEQ 0 THEN
BEGIN
     Check the special parameters, the ones that take a parameter.
                                                                       !/DEC_CRT
       BEGIN
        str$append( desc, SD_DEC_CRT) ;
        str$append( desc, SD_COMMA );
2 IF (_tt2$m_deccrt2 AND .deccrt_set) NEQ 0 THEN
                                                                       !/DEC_CRT2
       BEGIN
        str$append( desc, SD_DEC_CRT2) ;
        str$append( desc, SD_COMMA );
  IF (tt2$m_deccrt AND .deccrt_clr) NEQ 0 THEN
                                                                       !/NODEC_CRT
       BEGIN
        str$append( desc, SD_NO )
        str$append( desc, SD_DEC_CRT );
        str$append( desc, SD_COMMA );
        END:
  IF (tt2$m_deccrt2 AND .deccrt_clr) NEQ 0 THEN
                                                                       !/NODEC_CRT2
       str$append( desc, SD_NO );
```

C 15

16-Sep-1984 01:10:06

14-Sep-1984 12:09:20

```
str$append( desc, SD_DEC_CRT2 );
                            str%append( desc,
str%append( desc,
END;

Parity
If .flags[set$v_nopar]
THEN
REGIN
                                      str$append( desc, SD_COMMA );
                                     BEGIN
                                     str$append(desc, %ASCID 'NOPARITY');
                                     str$append(desc, SD_COMMA);
                               ELSE IF .flags[set$v_odd] OR .flags[set$v_even]
                               THEN
                                     BEGIN
                                     str$append(desc, SD_PARITY);
str$append(desc, %ASCID '=');
                            str$i
str$i
F.
THEN
ELSE
Str$i
END;
CRfill
CRfill
F.
Flags
THEN
BEGIN
                                      If .flags[set$v_odd]
                                     THEN str$append(desc, term$_odd)
                                     ELSE str$append(desc, term$_even);
                                     str$append(desc, SD_COMMA);
                               If .flags[set$v_cr]
                                     BEGIN
                                     fao_desc[0] = %ALLOCATION(fao_buffer);
$FAOL(CTRSTR = %ASCID 'CRFILL=!UL,',
                                              OUIBUF = fao_desc,
2201
                                              OUTLEN = fao desc,
PRMLST = %REF(.fill<0,8>));
2202
2203
2204
2205
2206
2207
2208
2209
2210
2211
                                     str$append(desc, fao_desc);
                                     END:
                                  frame size
                               If _.flags[set$v_frame]
                               THEN
                                     BEGIN
                                     fao_desc[0] = %ALLOCATION(fao_buffer);
2212
                                     $FAOL(CTRSTR = %ASCID 'FRAME=!UL,',
                                             OUTBUF = fao_desc,
OUTLEN = fao_desc,
PRMLST = %REF(.PARITY<0,4>));
2214
2215
                    2303
2216
                                     str$append(desc, fao_desc);
                    2304
2305
2306
2307
2308
2310
2311
2217
2218
2219
2220
2221
2222
2223
2224
2225
                                     END:
                                  dismiss parity errors
                               IF .flags[set$v_dismis]
THEN
                                     BEGIN
                                     str$append(desc, %ASCID 'DISMISS PARITY ERRORS');
                    2312
                                     str$append(desc, SD_COMMA);
```

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[CLIUTL.SRC]SETTERM.B32:1

```
2313
2314
2315
2316
2317
ELSE IF .flags[set$v_nodism]
THEN
                                                                                            BEGIN
                                                                                            str$append(desc, %ASCID 'NO DISMISS PARITY ERRORS');
                                                  2318
                                                                                             str$append(desc, SD_COMMA);
                                                                                            END:
                                                   2320
                                                                                     LFfill
                                                -232345
-232325
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-232
                                                                              If .flags[set$v_lf]
                                                                              THEN
                                                                                            BEGIN
                                                                                            fao_desc[0] = %ALLOCATION(fao_buffer);
                                                                                            SFAUL (CTRSTR = %ASCID 'LFFILL=!UL,',
                                                                                                                 OUTBUF = fao_desc,
OUTLEN = fao_desc,
PRMLST = %REF(.fill<8,8>));
 2244
                                                                                            str$append(desc, fao_desc);
 2245
                                                                                            END:
2246
2247
                                                   2335
2248
                                                                                    Page size
                                                2249
2250
                                                                             IF .flags[set$v_page]
2251
                                                                              THEN
2252
                                                                                           BEGIN
2253
                                                                                             fao_desc[0] = %ALLOCATION(fao_buffer);
2254
                                                                                            $FAOL(CTRSTR = %ASCID 'PAGE=!OL.'.
2255
                                                                                                                OUTBUF = fao_desc.
2256
                                                                                                                OUTLEN = fao desc.
                                                                                                                PRMLST = %REF(.info_block[term$b_page]));
2257
2258
                                                                                           str$append(desc, fao_desc);
2259
2260
                                                                                           END:
2261
5595
                                                                                     Width
2263
2264
                                                                             If .flags[set$v_width]
2265
                                                                             THEN
2266
                                                                                           BEGIN
 2267
                                                                                             fao_desc[0] = %ALLOCATION(fao_buffer);
2268
2269
2271
2273
2274
2275
2276
2278
2281
2281
2281
                                                                                            SFAUL(CTRSTR = MASCID 'WIDTH=!UL.'.
                                                                                                                OUTBUF = fao_desc,
OUTLEN = fao_desc,
PRMLST = %REF(.info_block[term$w_width]));
                                          P
                                                  2358
2359
                                                                                            str$append(desc, fao_desc);
                                                  2360
2361
2362
2363
2364
2365
2366
2367
2368
2369
                                                                                            END:
                                                                                     Speed
                                                                             If .flags[set$v_speed]
                                                                             THEN
                                                                                            BEGIN
                                                                                            LOCAL
                                                                                                          speeds : VECTOR[2];
```

```
F 15
SETTERM
                                                                            16-Sep-1984 01:10:06
14-Sep-1984 12:09:20
                                                                                                         VAX-11 Bliss-32 V4.0-742
                                                                                                                                                    Page 71
V04-000
                                                                                                         [CLIUTL.SRC]SETTERM.B32;1
                                                                                                                                                         (12)
                                fao_desc[0] = %ALLOCATION(fao_buffer);
speeds[0] = .term$_spdblk[.speed<0,8>];
If .speed<8,8> NEQ 0
THEN speeds[1] = .term$_spdblk[.speed<8,8>]
ELSE speeds[1] = .speeds[0];
                  2370
2371
2373
2374
2377
2377
2378
2380
 SFAOL(CTRSTR = MASCID 'SPEED=(!AS.!AS).'.
               P
                                        OUTBUF = fao_desc.
                                        OUTLEN = fao_desc.
                                        PRMLST = speeds):
                                 strSappend(desc, fao_desc);
                                 END:
 2296
2297
                              finally, signal an informational message.
                   2384
 2298
                  2385
                            If .desc[dsc$w_length] NEQ 0
 2399
2300
2301
2302
2303
2304
2305
                  2386
                            THEN
                  2387
2388
2389
2390
                                 BEGIN
                                      desc[dsc$w_length] = .desc[dsc$w_length] - 1;
                                      SIGNAL(set _termset, 2, dev_desc, desc);
                                 END:
                  2391
2392
                            RETURN:
                            END:
                                                                                        .PSECT $PLIT$, NOWRT, NOEXE, 2
                                    54 49
                                                                       002CC P.ACR:
002D4 P.ACQ:
                                                        50 4F 4E
                                               52 41
                                                                                        .ASCII
                                                                                                 \NOPARITY\
                                                           010E0008
                                                                                        .LONG
                                                                                                 17694728
                                                           00000000
                                                                       002D8
                                                                                        .ADDRESS P.ACR
                                                        00
                                                                       002DC P.ACT:
                                                                                        .ASCII \=\<0><0><0>
                                                    00
                                                             00 3D
                                                                       002E0 P.ACS:
                                                           010E0001
                                                                                        .LONG
                                                                                                17694721
                                                           00000000
                                                                                        .ADDRESS P.ACT
                                                                       002E4
                       40 55
                                21
                                      3D
                                          40
                                               40
                                                    49
                                                                       002E8 P.ACV:
                                                                                        .ASCII \CRFILL=!UL,\<0>
                                                           010E000B
                                                                       002F4 P.ACU:
                                                                                        .LONG
                                                                                                17694731
                                                           00000000
                                                                       002F8
                                                                                        .ADDRESS P.ACV
                       20
                                     21
                                          3D
                                               45
                                                                       002FC P.ACX:
                  JO
                           40
                                                    4D
                                                             52 46
                                                                                        .ASCII \FRAME=!UL,\<0><0>
                                                           010E000A
                                                                       00308 P.ACW:
                                                                                        .LONG
                                                                                                17694730
                                                           00000000
                                                                       0030C
                                                                                        .ADDRESS P.ACX
    59
         54
             49
                  52
                            50
                                                                       00310 P.ACZ:
                       41
                                                                                        .ASCII \DISMISS PARITY ERRORS\<0><0><0>
                            00
                                 ŌŌ
                                      00
                                          53
                                               52
                                                         52
                                                             52 45
                                                    4F
                                                                       0031F
                                                           010E0015
                                                                       00328 P.ACY:
                                                                                        .LONG
                                                                                                17694741
                                                           0000000
                                                                       0032C
00330 P.ADB:
                                                                                        .ADDRESS P.ACZ
                                49
52
                                          53
52
                                                         20<sup>°</sup>
    52
              50
                  20
                       53
                                      4D
                                                                                       .ASCII \NO DISMISS PARITY ERRORS\
                                     4F
                                               52
                                                                54
                                                                       0033F
                                                           010E0018
                                                                       00348 P.ADA:
                                                                                       .LONG
                                                                                               17694744
                                                           00000000
                                                                       0034C
                                                                                        .ADDRESS P.ADB
                           55
                                21
                                      3D
                                                    49
                                                                       00350 P.ADD:
                       40
                                          40
                                               40
                                                                                        .ASCII \LFFILL=!UL,\<0>
                                                             46 40
                                                           010E000B
                                                                       0035C P.ADC:
                                                                                        .LONG
                                                                                                17694731
                                                           00000000
                                                                       00360
                                                                                        .ADDRESS P.ADD
              00
                  00
                       00
                            2C
                                40
                                     55
                                          21
                                               3D
                                                    45
                                                             41 50
                                                                       00364 P.ADF:
                                                                                        .ASCII \PAGE=!UL,\<0><0><0>
                                                                       00370 P.ADE:
                                                           010E0009
                                                                                        .LONG
                                                                                                17694729
                                                           00000000
                                                                       00374
                                                                                        .ADDRESS P.ADF
                  00
                       20 40 55
                                     21
                                          3D
                                               48
                                                    54
                                                             49
                                                                       00378 P.ADH:
                                                                  57
                                                                                        .ASCII \WIDTH=!UL,\<0><0>
                                                           010E000A
                                                                       00384 P.ADG:
                                                                                       .LONG 17694730
                                                           00000000
                                                                       00388
                                                                                        .ADDRESS P.ADH
```

ΑE

04

0000000000043

38

00000000G0043

11

13

DD

9F

000A1

000AC

000AE

000B5

000A3 5\$:

BRB

BITL

BEQL

PUSHL

**PUSHAB** 

DESC

4(R2), TERM\$\_TTCLR\_BIT[1]

TERMS\_TTCLR\_KEY[1]

2157

2160

			1	H 15  6-Sep-19  4-Sep-19	984 01:10 984 12:09	:06 VAX-11 Bliss-32 V4.0-742 :20 [CLIUTL.SRC]SETTERM.B32;1	Page 73 (12)
	66	02 57	FB 000B8	3	CALLS PUSHL	#2, STR\$APPEND	; ; 2161
	4.4	38 ÁÉ	9f 000Bt	)	PUSHAB	DESC	;
D8	66 53 53	38 AE 02 00000000G 8F	DD 000BE 9F 000BC FB 000CC F3 000CC	6\$:	CALLS AOBLEQ	#2, STR\$APPEND #TERM\$_TTCLR_NUM-1, I, 5\$	2155
		01 20	CE 000CE		MNEGL	#1, I - 8\$	2165
	00000000G0043	08 A2 15	03 00000 13 00009	75:	BRB BITL BEQL	8(R2), TERM\$_TT2SET_BIT[I] 8\$	2167
		00000000G0043	DD 000DE	3	PUSHL	TERM\$_TT2SET_KEY[]]	2170
	66	38 AE 02 57	FB 000E	5	PUSHAB CALLS PUSHL	DESC #2, STR\$APPEND R7	
		38 AE	DD 000E8	1	PUSHAB	R/ DESC	2171
D8	66 53 53	38 AE 02 00000000 8F	FB 000E0	) ) 8 <b>\$</b> :	CALLS AOBLEQ	DESC #2, STR\$APPEND #TERM\$_TT2SET_NUM-1, I, 7\$	2165
	53	01	DO 000F8	3	MOVL	#1, I 10\$	2175
	00000000G0043	0C A2 15	D3 000F0	9\$:	BRB BITL	12(R2), TERM\$_TT2CLR_BIT[I]	2177
		00000000G0043	13 00106 DD 00108	3	BEQL Pushl	10\$ TERM\$_TT2CLR_KEY[I]	2180
	66	38 AE 02	DD 00108 9F 0010F FB 00112	: <b>)</b>	PUSHAB	DESC	•
		02 57 38 AE	DD 00115 9F 00117		CALLS PUSHL PUSHAB	#2, STR\$APPEND R7 DESC	2181
	66	02	FB 0011/	1	CALLS	#2, STR\$APPEND #TERM\$_TT2CLR_NUM-1, I, 9\$	,
D <b>8</b>	66 53 53	00000000 8F	F3 00110 CE 00125	5	MNEGL	#1, 1	; 2175 ; 2185
	6943	04 A2	11 00128 03 0012/	3 \ 11 <b>\$</b> :	BRB BITL	12\$ 4(R2), TERM\$_TTSET_BIT[I]	2187
		1A	D3 0012/ 13 0012/ 9F 00131		BEQL PUSHAB	12 <b>\$</b> SD_NO	2190
		DO A7 38 AE 02	9F 00134	•	PUSHAB	DE2C	; 2170
	66	6A43	FB 00137 DD 00137		CALLS PUSHL PUSHAB	#2, STR\$APPEND TERM\$_TTSET_KEY[]]	2191
	66	38 AÉ	DD 0013/ 9F 00130 FB 00140 DD 00143 9F 00145	) )	PUSHAB CALLS	TERM\$_TTSET_KEY[]] DESC #2, STR\$APPEND	•
		02 57	DD 00143 9F 00145		CALLS PUSHL PUSHAB	R7 DESC #2, STR\$APPEND R11, I, 11\$	2192
20	66	95	FB 00148	12 <b>\$</b> :	CALLS	#2, STR\$APPEND	: 2105
DB	66 53 53	03	F3 0014E	123:	MOVL	#3, I 14\$	; 2185 ; 2196
	00000000G0043	38 AE 02 5B 03 28 62 1E D0 A7 38 AE 02 0000000000043	DO 0014F 11 00152 D3 00154 13 00156 9F 00164 PB 00164 PF 00165	13\$:	BRB BITL	14\$ (R2), TERM\$_TTCLR_BIT[I]	2198
		1 <u>E</u>	13 00150	, , , , ,	BEQL PUSHAB	14\$ SD_NO	2201
		38 AÉ	9F 00161		PUSHAB	DE2C	; 2201
	66	00000000000043	DD 00167		CALLS PUSHL PUSHAB	#2, STR\$APPEND TERM\$_TTCLR_KEY[I]	2202
	66		9F 0016E FB 00171		PUSHAB Calls	DESC #2, STR\$APPEND	•
	30	57 38 AE	FB 00171 DD 00174 9F 00176 FB 00179 F3 00170 CE 00184		CALLS PUSHL PUSHAR	R7 DESC	2203
80	66	00000000	FB 00179	1/6:	PUSHAB CALLS AOBLEQ MNEGL	#2, STR\$APPEND	2104
DO	66 53 53	00000000G 8F	(E 00184	, 14 <b>3</b> :	WNECL	#TÉRM\$_TTCLR_NUM-1, I, 13\$ #1, I 16\$	: 2196 : 2207
		29	11 00187	,	BRB	16\$	;

			I 15 16-Sei 14-Sei	p-1984 01:10 p-1984 12:09	:06	Page 74 (12)
	0000000060043	0C A2	03 00189 15\$		12(R2), TERMS_TT2SET_BIT[I]	; 2209
		0C A2 1E D0 A7	13 00192 9F 00194	BEQL Pushab	16\$ SD_NO	2212
	66	38 AE	9F 00197 FB 0019A DD 0019D	PUSHAB	DE2C	,
	00	00000000000043	00 00190	CALLS PUSHL	#2, STR\$APPEND TERM\$_7-25ET_KEY[I]	2213
	66	38 AE 02	9F 001A4 FB 001A7	PUSHAB CALLS	DESC #2, STR\$APPEND	
		57 38 AE	DD 001AA 9F 001AC	PUSHL PUSHAB	R7 DESC	2214
	66	02	FB 001AF	CALLS	#2, STR\$APPEND	
CF	53 53	01	F3 001B2 16\$:	: AOBLEQ Movl	#TERM\$_TT2SET_NUM-1, I, 15\$ #1, I	; 2207 ; 2218
	0000000060043	08 A2 1E DO A7	11 001BD D3 001BF 17\$	BRB	18\$	:
	0000000000000	16	13 001C8	BEQL	8(R2), TERM\$_TT2CLR_BIT[I] 18\$	2220
		DO A7 38 AE	9F 001CA 9F 001CD	PUSHAB PUSHAB	SD_NO DESC	; 2223
	66	38 AE 02 000000000043	FB 001D0	CALLS PUSHL	W2, STRSAPPEND	;
		58 AE	9F 001DA	PUSHAB	TERM\$_TT2CLR_KEY[I] DESC	2224
	66	02 57	FB 001DD DD 001E0	CALLS PUSHL	#2, STR\$APPEND R7	2225
	44	38 ÁÉ	9f 001E2	PUSHAB	DESC	;
CF	66 53 30 <b>A</b> 2	38 AE 02 00000000 8F	FB 001E5 F3 001E8 18\$:	CALLS AOBLEQ	#2, STR\$APPEND #TERM\$_TTZCLR_NUM-1, I, 17\$	2218
11	3C A2	10	E1 001F0 9F 001F5	BBC PUSHAB	#29, 60(R2), 19 <b>5</b>	; 2234 ; 2236
		C4 A7 38 AE	9F 001F8	PUSHAB	SD_DEC_CRT DESC	, 2230
	66	02 57	FB 001FB DD 001FE	CALLS PUSHL	#2, STRSAPPEND R7	2237
	44	38 AE 02 57 38 AE 02	9F 00200 FB 00203	PUSHAB	DESC	
11	3c A2	1E	E1 00206 19\$:		#30, 60(R2), 20\$	2240
		F4 A7	9F 0020B	PUSHAB PUSHAB	SD_DEC_CRT2	: 2242
	66	38 AE 02 57	FB 00211	CALLS	M2, STR\$APPEND	
		38 AE 02	DD 00214 9F 00216	PUSHL PUSHAB	R7 DESC	2243
1A	66 40 A2	02 10	FB 00219 E1 00210 20\$:	CALLS	#2 STRSAPPEND	2246
17	40 KE	DO A7	9F 00221	BBC PUSHAB PUSHAB	#29, 64(R2), 21\$ SD_NO DESC	: 2248
	66	38 AE 02 C4 A7	9F 00224 FB 00227	CALLS	WZ. SIKDAPPENU	<b>.</b>
		C4 A7 38 AE	9F 0022A 9F 0022D	CALLS PUSHAB	SD_DEC_CRT DESC #2, STR\$APPEND	2249
	66	20 05	FB 00230	PUSHAB CALLS	#2, STR\$APPEND	
		38 AE	DD 00233 9F 00235	PUSHL PUSHAB	R/ DESC	2250
1A	40 A2	38 AE 02 57 38 AE 02 1E D0 A7	FB 00238	CALLS	#2, STR\$APPEND	. 2267
17	40 AZ	DO A7	E1 0023B 21\$: 9F 00240	BBC PUSHAB	#30, 64(R2), 22\$ SD_NO DESC	2253 2255
	66	38 AE 02 F4 A7	9F 00243 FB 00246	PUSHAB CALLS PUSHAB	DESC #2, STR\$APPEND	•
	30	F4 Å7	9F 00249	PUSHAB	SD_DEC_CRT2 DESC	2256
	66	38 AE 02	9F 0024C FB 0024F	PUSHAB Calls	#2, STR\$APPEND	•

							J 15 16-Sep-1 14-Sep-1	984 01:10 984 12:09	0:06	Page 75 (12)
					38	57 AF	DD 00252 9F 00254	PUSHL PUSHAB	R7 DESC	; 2257
		06		66 64		02	FB 00257	CALLS BBC	#2, STR\$APPEND #4, (R4), 23\$	: 2262 : 2265
		04		64	0204	C7 2E 02	E1 0025A 22\$: 9F 0025E 11 00262 E0 00264 23\$:	PUSHAB BRB BBS	P.ACQ 26\$ #2, (R4), 24\$	;
		04 34		64 64	FF58	03 C7	E1 00268	BBC Pushab	N3. (R4). 27\$ SD_PARITY DESC	; 2268 ; 2271
				66	38	AE 02	9F 00270 FB 00273	PUSHAB CALLS PUSHAB	#2, STRSAPPEND	•
				66	0210 38	C7 AE 02	9F 00270 FB 00273 9F 00276 9F 0027A FB 0027D E1 00280	PUSHAB PUSHAB CALLS	P.ACS DESC #2, STR\$APPEND	; 2272
		80		66 64 00	0000000	00 20		BBC PUSHAB	#2. (R4), 25\$ TERM\$_ODD	; 2273 ; 2274
				00	၀၀၀၀၀၀ွင	06	11 0028A 9F 0028C 25\$:	BRB PUSHAB	20\$ Term\$_even	2275
				66	38	AE 02 57	9F 00292 26\$: FB 00295 DD 00298	PUSHAB CALLS PUSHL	DESC #2, STR\$APPEND R7	2276
				66	38	AE 02	9F 0029A FB 0029D	PUSHAB CALLS	DESC W2. STR\$APPEND	;
		20	00	66 64 AE 6E	10	06 20	DU UUZA4	BBC MOVL	M6, (R4), 28\$ M32, FAO DESC	; 2282 ; 2285
				ÖE	18 10	A2 5E AE	9A 002A8 DD 002AC 9F 002AE	MOVZBL PUSHL PUSHAB	24(Ř2), (SP) SP FAO_DESC	2 '89
					14 0224	AE C7	9F 002B1 9F 002B4	PUSHAB PUSHAB	FAO_DESC P.ATU	•
				68	0 C 38	04 AE	FB 00288 9F 00288	CALLS PUSHAB	#4, SYS\$FAOL FAO_DESC	2290
		22		66 64	36	AE 02 0A	FB 002C1	PUSHAB CALLS BBC	DESC #2, STR\$APPEND #10, (R4), 29\$	2295
6E	14	A2	00	64 AE 04		20 00	E1 002C4 28\$: D0 002C8 EF 002CC DD 002D2	MOVL Extzv	#10, (R4), 29\$ #32, FAO DESC #0, #4, 20(R2), (SP)	2295 2298 2302
					10 14	SE AE AE	91 00204	PUSHL PUSHAB	FAO_DESC	•
				68	0238	07 04	<b>U</b> F 0020 <b>A</b>	PUSHAB PUSHAB	FAO_DESC P.ACW #4, SYS\$FAOL	<b>.</b>
					0C 38	AE AE	9F 002E1 9F 002E4	PUSHAB PUSHAB CALLS PUSHAB PUSHAB	FAO_DESC DESC	2303
		06		66 64	0258	02 0B	FB 002E7 E1 002EA 29\$:	BBC	#11, (R4), 50\$	2308 2311
		12		64		08 00	9F 002EE 11 002F2 E1 002F4 30\$:	PUSHAB BRB BBC	P.ACY 31\$ #12. (R4). 32\$	•
		-			0278 38	C7 AE	9F 002F8	BBC PUSHAB PUSHAB	#12, (R4), 32\$ P.ADA DESC	2314 2317
				66	38	02 57 AE	FB 002FF DD 00302 QF 00304	CALLS PUSHL PUSHAB	#2, STR\$APPEND R7 DESC	2318
		20	00	66 64 <b>A</b> E	<b>J</b> 0	02 05 20	FB 002FF DD 00302 9F 00304 FB 00307 E1 0030A 32\$: D0 0030E	CALLS BBC MOVL	DESC #2, STR\$APPEND #5, (R4), 33\$ #32, FAO_DESC	2323 2326

						1	K 15 6-Sep-1 4-Sep-1	984 01:10 984 12:09	: 06 : 20	VAX-11 Blis [CLIUTL.SRC	s-32 V4.0-742 JSETTERM.B32;1	Paç	ge 76 (12)
		6E	19	A2	94	00312		MOVZBL	25 (R	2), (SP)		:	2330
		4.0	10 14 0280	AZ SE AE C7	DD 9f 9f 9f	00312 00316 00318 00318		PUSHL PUSHAB PUSHAB PUSHAB	SP FAO_ FAO P.AD	DESC DESC C			
		68	0 C 38	04 AE 02 09	FB 9F 9F	00322 00325 00328		CALLS PUSHAB PUSHAB	FAO_				2331
20		66 64		02 09	FB E1	00328 00328 00332 00332 00336 00335	33\$:	CALLS BBC	#Z,	STRSAPPEND			2337
	00	AE 6E	07	ŽÓ	DO	00332		MOVL	#32.	FAO DESC			: 2340
		OE	-	20 A5 5E	9A DD	0033A		MOVZBL Pushl	SP	), (SP)			2344
			10 14	AE AE C7	9F 9F	0033C 0033F		PUSHAB PUSHAB	FAO_	DESC DESC			
		68	02Å0	ζ7 0/	9F FB	<b>UU346</b>		PUSHAB	P.A5	E		•	;
		00	0 C 38	04 AE AE 02	9F	00346		CALLS PUSHAB	FAO_I	SYS <b>\$</b> FAOL Desc			2345
		66	38	<b>AE</b> 02	9F FB	0034C		PUSHAB CALLS	DESC	STRSAPPEND			•
	0с	20 AE 6E	01	A4	<b>E9</b>	0034F 00352	348:	BLBC	1 (R4	STR\$APPEND ), 35\$ ,FAO_DESC			2351
	UC	6E	02	20 A5 SE AE AE C7	<b>DO</b> 3C	00356 0035A 0035E		MOVL MCVZWL	<b>2(K)</b>	), (SP)			2354 2358
			10	SE AE	DD 9F	0035E 00360		PUSHL PUSHAB	SP FAO_I	DESC			
			14	AĒ	9F	00363		PUSHAB	FAO_	DESC		•	
		68	0284	04	9F FB	00366 0036A		PUSHAB CALLS	P.AD	SYS\$FAOL			
			0C 38	04 AE AE 02	9 F 9 F	0036D 00370		PUSHAB PUSHAB	FAO_I DEST	DESC			2359
		66	30	ÖŽ	FB	00373	750.	CALLS	#2,	STR\$APPEND		•	27/5
	_			64 40	95 18	00373 00376 00378	35\$:	TSTB BGEQ	(R4) 38\$				2365
	00	AE 50	10	20 <b>A</b> 2	DU	0037A 0037E		MOVL MOVZBL	#32.	FAO DESC			2370 2371
	04	AE	000000000	1040	D0	00382		MOVL	TERM	2), RO \$_SPDBLK[RO], 2), RO	SPEEDS	•	
		50	11	A2 0B	9A 13	0038B 0038F		MOVZBL BEQL	<b>565</b>				2372
	08	AE	0000000G0	040	D0 11	00391 0039A		MOVL BRB	TERM!	S_SPDBLK[RO],	SPEEDS+4		2373
	08	AE	04		ĎÖ	0039C 003A1 003A4 003A7	36\$:	MOVL	SPEE	S, SPEEDS+4		;	2374
			04 10	AE AE AE C7	9F 9F	003A4	5/5:	PUSHAB PUSHAB	SPEE!	OS DESC		•	2378
			14 02CC	AE C 7	9F 9F	003A7		PUSHAB PUSHAB	FAO I	ĒŠČ			
		68		04	FB	003AE 003B1		CALLS PUSHAB	#4,	SYS\$FAOL		:	
			0C 38	AE AE	9F	003B4		PUSHAB PUSHAB	FAO_I	DESC		•	2379
		66	34	AE 02 AE 18	FB	003B7 003BA	Zge.	CALLS TSTW	#2, 9	STR\$APPEND		:	2795
					13	003BD		BEQL	DESC 39\$			; ;	2385
			34 34 20	AE AE A2 02 8F	B7 9f	0036F 003C2 003C5		DECW PUSHAB	DESC				2388 2389
			ŽÓ	A2	9F	0030		PUSHAB	DESC 32(R	2)		•	230,
			0000000G		DD	003C8 003CA 003D0		PUSHL PUSHL	#2 #SETS	TERMSET		•	
(	0000000G	00		04	FB	00300		CALLS	#4, 1	TBSSIGNAL		;	

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04 00307 39\$:

RET

Routine Size: 984 bytes, Routine Base: \$CODE\$ + 102B

; 2392

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: 2307: 2308

2393 1 END 2394 0 ELUDOM

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name Bytes

Attributes

SOWNS SPLITS SCODES 236 NOVEC, WRT, RD .NOEXE.NOSHR, LCL, REL, CON.NOPIC.ALIGN(2) 932 NOVEC.NOWRT, RD .NOEXE.NOSHR, LCL, REL, CON.NOPIC.ALIGN(2) 5123 NOVEC.NOWRT, RD . EXE.NOSHR, LCL, REL, CON.NOPIC.ALIGN(2)

Library Statistics

File

\_\$255\$DUA28:[SYSLIB]LIB.L32:1

Total Loaded Percent Mapped Time

18619 120 0 1000 00:02.0

; Information: 1 ; Warnings: 0 ; Errors: 0

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:SETTERM/OBJ=OBJ\$:SETTERM MSRC\$:SETTERM/UPDATE=(ENH\$:SETTERM)

: Size: 5123 code + 1168 data bytes

; Run Time: 01:36.3 ; Elapsed Time: 05:01.3 ; Lines/CPU Min: 1491 ; Lexemes/CPU-Min: 21433 ; Memory Used: 464 pages ; Compilation Complete 0054 AH-BT13A-SE

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